

LIST OF APPROVED PRODUCTS for use in Public Water Supply in the United Kingdom

February 2014



guardians of drinking water quality



Llywodraeth Cymru
Welsh Government

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Errors and corrections:

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BACKGROUND

GENERAL DEFINITIONS

The relevant regulations (for public drinking water suppliers)

The following regulations apply to the approval of substances and products used in the provision of public water supplies within the United Kingdom:

- a) **England** - Regulation 31 of The Water Supply (Water Quality) Regulations 2000 (Statutory Instruments 2000 No 3184) – http://www.dwi.gov.uk/stakeholders/legislation/ws_wqregs2000.pdf
- b) **Wales** – Regulation 31 of The Water Supply (Water Quality) Regulations 2010 (Welsh Statutory Instrument 2010 No 994 (W.99) – <http://www.opsi.gov.uk/legislation/wales/wsi2001/20013911.htm>
- c) **Scotland** – Regulation 27 of The Water Supply (Water Quality) (Scotland) Regulations 2001 – <http://www.opsi.gov.uk/legislation/scotland/ssi2001/20010207.htm>
- d) **Northern Ireland** – Regulation 30 of The Water Supply (Water Quality) (Amendment) Regulations (Northern Ireland) 2009 (Statutory Rules of Northern Ireland 2009 No.246) - http://www.opsi.gov.uk/sr/sr2009/nisr_20090246_en_1

Where reference is required to specific regulatory requirements, these are given in footnotes.

The Authorities

Under the relevant regulations water suppliers shall not apply or introduce any substance or product into public water supplies unless the requirements of the relevant regulations are met. One of these requirements is that the substance or product has been **approved** by either the Secretary of State for the Environment Food and Rural Affairs (England), the Welsh Ministers (Wales), the Northern Ireland Assembly (Northern Ireland) or the Scottish Ministers (Scotland) – collectively referred to as “the Authorities”.

The List

Under the relevant regulations lists of all the substances and products approved or refused, and of all approvals revoked or modified are published at least once a year –

- **England and Wales** – **this list is regularly updated by DWI throughout the year, and includes details of changes to approved products and additions to the List; this list (the List of Products for use in Public Water supply in the United Kingdom) is posted on the DWI website:** <http://www.dwi.gov.uk/drinking-water-products/approved-products/soslistcurrent.pdf>
- **Scotland** – a list is published annually by the Scottish Government on their website: <http://www.scotland.gov.uk/Publications/>
- **Northern Ireland** – in due course the Department for Regional Development (Northern Ireland) will also publish a list.

The approval of a product

Approval is based upon consideration as to whether the use of a substance or product will adversely affect the quality of the water supplied, or cause a risk to the health of consumers; no consideration is given to fitness for purpose and approval by the Authorities must not be taken as a favourable assessment of the performance or merits of any substance or product. It is the responsibility of the end user to ensure fitness for purpose.

The approval process for general products used with water intended for human consumption is set out in Advice Sheet 1. (<http://www.dwi.gov.uk/drinking-water-products/advice-and-approval/Advicesheet1.pdf>). Relevant deviations from this process are set out in the appropriate Advice Sheets.

Water suppliers

These include water undertakers, inset appointees, and combined licensees - see The Water Act 2003 (Consequential and Supplementary Provisions) Regulations 2005, together with private drinking water suppliers.

INTRODUCTION

The products in this list have only been assessed for safety for use in water supplies; they have not been assessed for fitness for purpose, or for use in buildings. The Water Regulations Advisory Scheme (WRAS) operates a specific approval scheme for products used in buildings - <http://www.wras.co.uk/Directory/>

Section 69 of the Water Industry Act 1991, as amended by the Water Act 2003, gave the Secretary of State for the Environment, Food and Rural Affairs and the Welsh Ministers powers to make regulations controlling substances, processes and/or products that are used in the treatment and provision of public water supplies. Section 76B of the Water (Scotland) Act 1980 gives Scottish Ministers similar powers.

The Drinking Water Inspectorate (DWI) carries out the approval process for the Authorities for the whole of the United Kingdom, under the relevant Regulations. DWI accepts applications for approval of products used both before the treatment works, and in water distribution systems up to the point of delivery to premises.

The relevant regulations concern the introduction of substances and products (including construction products) and processes for use in the treatment and provision of drinking water supplies. They implement the requirements of Article 10 of the European Union Directive 98/83/EC on the quality of water intended for human consumption, in respect to substances and materials used in the preparation and distribution of water up to the point of delivery to premises. They do not transpose the requirements of the Directive with regard to the premises (water supply systems within buildings). In England and Wales these requirements are dealt with by the water industry Water Regulations Advisory Scheme (WRAS) under the Water Supply (Water Fittings) Regulations 1999. In Scotland these are dealt with by Scottish Water's Water Byelaws 2004.

Under the relevant regulations drinking water suppliers shall not apply or introduce any substance or product into public drinking water supplies unless the requirements of the relevant regulations are met.

Processes coming under these requirements are NOT included in this publication. For further details please see Regulation 32.

Further information on how applications for approval are dealt with by the DWI are given in Advice Sheet 1 <http://www.dwi.gov.uk/drinking-water-products/advice-and-approval/Advicesheet1.pdf>

When assessing applications for approval, DWI relies on the expertise of its Inspectors and expert advisers who are experienced in toxicology, chemistry, engineering, water treatment, water distribution and public health.

Basis of approval

DWI cannot advise on approval of products that will not be placed on the United Kingdom market.

When considering an application for approval, DWI considers only whether the use of a substance or product will adversely affect the quality of the water supplied, or cause a risk to the health of consumers; assessment of fitness for purpose is not covered.

Applications are considered for all construction products used in contact with water in water treatment processes, water supply pipelines (including raw water pipelines) and drinking and water storage, and in water installations of raw water intended for human consumption. In addition DWI considers water treatment chemicals and filtration media that are not covered by a published BS EN standard¹; products (individual chemicals or filter media) that conform to a BS EN standard may be used without the approval of the Authorities in accordance with any appropriate additional National conditions of use. New approvals granted have a 5 year approval before review and reconsideration.

It is important to note that approval of products does not give any indication as to the effectiveness or merits of the products in relation to any use.

Approved products have not been assessed for suitability for use with regeneration chemicals associated with some water treatment processes; for such applications, specific testing after exposure to the appropriate aggressive chemicals should be undertaken.

Products Approved Under Previous Regulations²

Approvals given under what are revoked Regulations are continued in effect by the combination of sections 17(2)(b) and 23 of the Interpretation Act 1978. So far as relevant, the effect of these provisions is that anything (including the approval of a substance or product) done under the previous Regulations that could have been done under present Regulations is taken to have been done under the latter Regulations.

For advice on Natural or Traditional products please refer to Advice Sheet 10 - <http://www.dwi.gov.uk/drinking-water-products/advice-and-approval/Advicesheet10.pdf>

Review of Approved Products

Listed Products – products listed within the current listing are subject to a review. This is currently covered through a 5 year implementation plan, in-line with our policy on new approvals being 5 years. A letter will be sent to the approval holder requesting information required for re-approval. If information is not received then the process for removal from the listing will start. Full details on the current expectations for re-approval can be found in Advice Sheet 1. <http://www.dwi.gov.uk/drinking-water-products/advice-and-approval/Advicesheet1.pdf>

New toxicological information - From time to time the DWI is made aware of new toxicological information on specific substances, usually from other recognised national or international bodies. DWI will review this information, and where necessary seek expert toxicological advice concerning the impact of this data on currently approved products containing those substances. If it is found that this information indicates that some approved products could pose a potential risk to human health, DWI may require some retesting of them. This process is set out in Advice Sheet 1, Section 7.2 and 9.2 - <http://www.dwi.gov.uk/drinking-water-products/advice-and-approval/Advicesheet1.pdf>

Changes to approved products - Approval holders are advised to keep changes to a minimum, but it is recognised that sometimes changes are necessary. If the approval holder makes any change to an approved product, this must be notified to DWI as soon as possible so

¹ See Annex 2.

² Or the 15th Statement of the Committee on Chemicals and Materials of Constructions for use in Public Water Supply and Swimming Pools (Department of the Environment) March 1989 – issued before implementation of the previous Regulations.

that an assessment of the implications of the change can be made. Major changes may mean that DWI will require further information and/or testing to determine whether the approval of the product can be maintained. It is for DWI to assess the significance of the change; some minor changes may require no further action. Further details are given in Advice Sheet 4 - <http://www.dwi.gov.uk/drinking-water-products/advice-and-approval/Advicesheet4.pdf>

In some cases any of the above could lead to revocation of approval of the product.

Breaches of any condition of approval would be grounds for revocation of that approval.

The Annual List of Approved Products

The relevant Regulations require that a list of all the substances and products approved or refused and all approvals revoked or modified, shall be published, at least once a year.

This list is regularly updated by DWI throughout the year, and includes details of changes to approved products and additions to the List. The list is posted on the DWI website: <http://www.dwi.gov.uk/drinking-water-products/approved-products/soslistcurrent.pdf> .

IMPORTANT NOTE

Please see the DWI website for the most up-to-date list. Printed copies of this list may not be up-to-date.

INTRODUCTION TO THE LIST OF APPROVED PRODUCTS

All approved products must be used in accordance with the specific conditions of approval, listed against the product names in Parts A-E. In addition, the following general conditions of approval apply to all approved products:

- (1) That use is in accordance with an Instructions for Use document. Approval holders must provide drinking water suppliers with copies of the Instructions for Use Document that was considered by the Drinking Water Inspectorate (DWI) when approval was recommended.*
- (2) That the approval of the Authorities is obtained on condition that there shall be:*
 - no change in the formulation of the approved product, including change in the source or identity of raw materials*
 - no change in the manufacturing process, including location of manufacture*
 - no change in designation of the approved product*
 - no change in name or ownership of the organisation holding the approval*
- (3) That the producer shall ensure that the product is tested for conformity with its formulation, and the source or identity of its raw materials, at such intervals and by such persons, as may be determined by the Authorities. The results of such testing shall be sent to the Authorities.*
- (4) If there is suspicion that any of the above is not being followed or has been changed then notify DWI Regulation 31 team who will investigate (reg31.enquiries@defra.gsi.gov.uk)*
- (5) That the approval is still valid*

PART A: CHEMICALS AND FILTER MEDIA

INTRODUCTION

The products listed in this section are for use by drinking water suppliers, and cover:-

- Chemicals that can be used for the treatment and disinfection of water intended for human consumption;
- Chemicals that can be used for the treatment of assets, eg surface disinfection; and
- Filter media used in the large scale filtration of water, but not part of specific units, eg cartridge filters, membrane filtration units etc.

Two series of relevant European Standards (EN) have been published -

- Chemicals used for treatment of water intended for human consumption
- Products used for treatment of water intended for human consumption

As a consequence of the introduction of these EN standards treatment chemicals or products that conform with an appropriate EN standard, and that are used in accordance with any specific national condition of use (see Annex 2, sections 2.1 and 2.2 respectively) may be used without the approval of the Authorities. These standards are published by the British Standards Institute(BSi) as BS EN Standards and are available through BSi.

Products that conform to an appropriate EN standard are not subject to the approval process and are no longer listed in this publication. When new appropriate EN standards are published, products currently listed and conform to the appropriate new EN standard, will be removed from this section and temporarily listed in Annex 1 table 1.6.2.

The products listed in this section have only been assessed for their safety for use in drinking water supplies, when used in accordance with the relevant Instructions for Use. These products have NOT been assessed for –

- a) their efficacy or fitness for purpose in respect of any use; or**
- b) their suitability for use in building water systems, including in terms of their safety when used in such systems.**

IMPORTANT NOTE

Where a product based on a treatment chemical meeting the requirements of a relevant EN standard also contains other ingredients, whether or not these other ingredients meet the requirements of relevant EN standards, a formal review of the product by DWI is required before use – see Sections 1.4 and 3 of Advice Sheet 3 – <http://www.dwi.gov.uk/drinking-water-products/advice-and-approval/Advicesheet3.pdf>

The following chemicals and products are either, not covered by a relevant EN standard, or do not conform fully to the scope and/or requirements of a published EN. For all of the chemicals and products listed, the following general condition of approval applies:

It is the responsibility of the drinking water suppliers to ensure that

- (a) the method and manner of use; and***
- (b) the purity of these chemicals and products***

are such that the water treated meets the requirements of the relevant regulations. Where appropriate, additional specific conditions of approval are listed against the chemical or product.

A.1 FLOCCULANTS AND COAGULANTS

A.1.1 Products based on tannin

This section contains no products

A.1.2 Products based on polyacrylamide

For the products listed below the following conditions apply:-

- (i) no batch must contain more than 0.020% of free acrylamide monomer based on the active polymer content
- (ii) the dose must average no more than 0.25mg/l and never exceed 0.50 mg/l of the active polymer
- (iii) an upper limit for the content of free acrylamide monomer must be stated by the supplier for every batch
- (iv) the method used for the analysis for free acrylamide monomer is that published in the series "Methods for the Examination of Waters and Associated Materials" entitled "Determination of Acrylamide Monomer in Waters and Polymers 1987" (HMSO 1988) Method number 115. ISBN 01175 2039X

BASF Performance Products plc

DWI 56/4/885 [Magnafloc LT20](#)
DWI 56/4/883 [Magnafloc LT22-DWI](#)
DWI 56/4/884 [Magnafloc LT22S-DWI](#)
DWI 56/4/886 [Magnafloc LT25](#)
DWI 56/4/887 [Magnafloc LT27](#)

Goldcrest Chemicals Ltd

DWI 56/4/914 [Golkem 124](#)
DWI 56/4/915 [Golkem N17](#)
DWI 56/4/916 [Golkem N184](#)
DWI 56/4/917 [Golkem A169](#)
DWI 56/4/918 [Golkem A24](#)
DWI 56/4/919 [Golkem A170](#)
DWI 56/4/920 [Golkem A225](#)
DWI 56/4/921 [Golkem A155](#)
DWI 56/4/922 [Golkem A28](#)
DWI 56/4/923 [Golkem A165](#)
DWI 56/4/924 [Golkem C575S](#)
DWI 56/4/930 [Golkem C570S](#)
DWI 56/4/949 [Golkem A219](#)
DWI 56/4/950 [Golkem A230](#)
DWI 56/4/951 [Golkem C565S](#)

Kemira Chemicals b.v

DWI 56/4/893 [Superfloc A100 PWG](#)
DWI 56/4/894 [Superfloc A110 PWG](#)
DWI 56/4/895 [Superfloc A120 PWG](#)
DWI 56/4/896 [Superfloc A130 PWG](#)
DWI 56/4/897 [Superfloc A137 PWG](#)
DWI 56/4/898 [Superfloc A150 PWG](#)
DWI 56/4/899 [Superfloc C-492 PWG](#)
DWI 56/4/900 [Superfloc N100 PWG](#)
DWI 56/4/901 [Superfloc N300 PWG](#)

A.1.3 Products based on polyamine

For the products listed below the following conditions apply:-

- (i) the dose must average no more than 2.5 mg/l and never exceed 5.0 mg/l as the active polymer
- (ii) no batch must contain more than 40 mg/kg 3-monochloro propane 1,2-diol
- (iii) the analytical system used for determining the batch content must have a limit of detection no greater than 4mg/kg. Both estimates must have at least 10 degrees of freedom and have been determined from batches of analyses carried out on not less than five separate days
- (iv) the supplier must state for every batch an upper limit for the content of 3-monochloro propane 1,2-diol

BASF Performance Products plc

DWI 56/4/888 [Magnafloc LT31](#)

DWI 56/4/889 [Magnafloc LT32](#)

Goldcrest Chemicals Ltd

DWI 56/4/925 [Golkem CL118](#)

DWI 56/4/926 [Golkem CL287](#)

DWI 56/4/931 [Golkem CL289](#)

Kemira Chemicals b.v

DWI 56/4/902 [Superfloc C573](#)

Nalco Europe b.v

DWI 56/4/905 ¹[Nalco 71223](#)

DWI 56/4/906 ¹[Nalco 71225](#)

¹ indicates products which also contain a coagulant based on aluminium

A.1.4 Products based on polyDADMAC (Polydiallyldimethyl ammonium chloride)

For the products listed below the following conditions apply:-

- (i) the dose must not exceed 10 mg/l of active polymer

BASF Performance Products plc

DWI 56/4/890 [Magnafloc LT35](#)

DWI 56/4/891 [Magnafloc LT37](#)

DWI 56/4/892 [Magnafloc LT38](#)

Goldcrest Chemicals Ltd

DWI 56/4/927 [Golkem CL488](#)

DWI 56/4/928 [Golkem CL489](#)

Kemira Chemicals b.v

DWI 56/4/903 [Superfloc C587](#)

DWI 56/4/904 [Superfloc C592](#)

A.1.5 Products based on aluminium

W7TER Ltd

DWI 56/4/808 [W7TER EC 1000 Series](#)

A.2 ADSORBENTS

There are currently no products in this section.

A.3 ION EXCHANGE RESINS SYSTEMS

A.3.1 Ion exchange resins

Orica Australia Pty Ltd

DWI 56/4/550 MIEX DOC Resin

DWI 56/4/550 MIEX DWII0I Resin

Purolite International Ltd

DWI 56/4/11 Purolite A520E nitrate selective anion exchange resin

Rohm and Haas (UK) Ltd

DWI 56/4/758 AMBERLITE PWA5

DWI 56/4/63 IMAC HP 336

A.3.2 Ion exchange resin based processes

Ionex SG Ltd

DWI 56/4/467 IXL Process

A.4 DISINFESTATION, DISINFECTION OR CLEANING AGENTS OF WATERWORKS APPARATUS AND DISTRIBUTION SYSTEMS

During the approval process there is no evaluation of a product's effectiveness, only of its safety in use. An approval given in this section does not certify that the Authorities are satisfied that the product is effective, but only that it is safe for use in accordance with the Instructions for Use supplied.

The fact that a product is approved does not justify any claim about its effectiveness.

Permission or consent for disposal of any wastewater generated to a sewer or watercourse must be obtained from the relevant water Service Company, or Environment Agency in England and Wales or Scottish Environment Protection Agency (SEPA) in Scotland as appropriate.

Aquabiotics Industrial Pty Ltd

DWI 56/4/642 BoreSaver Liquid

DWI 56/4/641 BoreSaver Ultra C

DWI 56/4/959 BoreSaver 1KL Pro

DWI 56/4/641 BoreSaver Ultra C Plus

Aquatreat Group Ltd

DWI 56/4/996 Peroxysil 50

For this product the following applies:

This product shall be rinsed until the concentration of Hydrogen Peroxide is 0.1mg/l or less.

Arch Chemicals S.A

DWI 56/4/845 [Constant Chlor Plus Briquettes](#)

BioBullets Ltd

DWI 56/4/852 [Silver Bullets 1000](#)

DWI 56/4/1000 [Silver Bullets 2000](#)

For these 2 products the following condition applies:

These products can only be used for raw water treatment.

Cleanwells Gbr

DWI 56/4/1029 [Aixtractor 2.0pH neutral water well rehabilitation agent](#)

Floran Technologies Inc

DWI 56/4/754 [Floran Biogrowth Remover/Floran Catalyst](#)

DWI 56/4/754 [Media Master/Floran Catalyst](#)

DWI 56/4/843 [Floran Top Ultra/Floran Catalyst](#)

Medentech

DWI 56/4/1068 [Aquatabs 8680mg](#)

Panton McLeod Ltd

DWI 56/4/212 [PM33](#)

DWI 56/4/212 [PM55](#)

DWI 56/4/212 [PM88](#)

Roam Chemie NV

DWI 56/4/573 [Huwa-San TR50](#)

For this product the following condition applies:

Flush the apparatus or distribution system before putting into service. Flushing shall be sufficient to ensure that all residual silver is flushed from the system such that the elevation of silver content in the final flush water is not greater than 1µg/l.

R. Spane GmbH

DWI 56/4/730 [Carela FIX & DES](#)

Tevan BV

DWI 56/4/844 [TEVAN Panox](#)

For this product the following condition applies:

This product shall be rinsed until the concentration of Hydrogen Peroxide is 0.1mg/l or less.

Water Treatment Products Ltd

DWI 56/4/211 [Sanosil Super 25](#)

For this product the following condition applies:

Flush the apparatus or distribution system before putting into service. Flushing shall be sufficient to ensure that all residual silver is flushed from the system such that the elevation of silver content in the final flush water is not greater than 1µg/l.

Zebec Systems Ltd

DWI 56/4/1051 [GeoSIL](#)

For this product the following condition applies:

This product shall be rinsed until the concentration of Hydrogen Peroxide is 0.1mg/l or less before returning the apparatus to service.

A.5 DISINFECTION OR CLEANING AGENTS OF MEMBRANES

During the approval process there is no evaluation of a product's effectiveness, only of its safety in use. An approval given in this section does not certify that the Authorities are satisfied that the product is effective, but only that it is safe for use in accordance with the Instructions for Use supplied.

The fact that a product is approved does not justify any claim about its effectiveness.

Ashland Drew Industrial Division

DWI 56/4/473 [AmeROyal 363](#)

BWA Water Additives UK Ltd

DWI 56/4/839 [Flocon 135](#)

Avista Technologies (UK) Ltd

DWI 56/4/582 [Delro 40](#)

DWI 56/4/964 [RoCide DB20](#)

DWI 56/4/737 [RoClean 111](#)

DWI 56/4/945 [RoClean L211](#)

DWI 56/4/855 [RoClean L403](#)

DWI 56/4/800 [RoClean L404](#)

DWI 56/4/824 [RoClean L607](#)

DWI 56/4/746 [RoClean P303](#)

DWI 56/4/457 [Vitec 3000](#)

DWI 56/4/582 [Vitec 4000](#)

DWI 56/4/458 [Vitec 5000](#)

DWI 56/4/801 [Vitec 7000](#)

DWI 56/4/869 [Vitec 7000a](#)

Genesys International Ltd

DWI 56/4/664 [Genesol 38](#)

DWI 56/4/665 [Genesol 40](#)

DWI 56/4/577 [Genesys HR](#)

DWI 56/4/495 [Genesys LF](#)

DWI 56/4/783 [Genesys LF60](#)

DWI 56/4/781 [Genesys LS](#)

DWI 56/4/610 [Genesys MG](#)

DWI 56/4/593 [Genesys SI](#)

DWI 56/4/524 [Genesys SW](#)

GE Power & Water, Water & Process Technologies

DWI 56/4/1006 [Hypersperse MDC704](#)

DWI 56/4/1007 [Kleen* MCT524](#)

DWI 56/4/1008 [Kleen* MCT103](#)

DWI 56/4/1009 [Kleen* MCT511E](#)

DWI 56/4/1010 [Kleen* MCT882](#)

DWI 56/4/1011 [Biomate MBC2881E](#)

DWI 56/4/1012 [Hypersperse MSI310](#)

Nalco Europe B.V. An Ecolab Company

DWI 56/4/1108 [PermaTreat PC-191T](#)

Professional Water Technologies Inc
DWI 56/4/854 Spectraguard SC

Water Treatment Products Ltd
DWI 56/4/821 WTP RO 411
DWI 56/4/822 WTP RO 413

A.6 DISINFECTANTS FOR EMERGENCY USE

Disinfectants for emergency use are no longer approved and listed under the requirements of relevant regulations. Guidance upon the choice and use of disinfectants in an emergency is provided in Advice Sheet 9 (<http://www.dwi.gov.uk/drinking-water-products/advice-and-approval/Advicesheet9.pdf>).

Approvals of previously listed disinfectants for emergency use have been revoked – see Information Letter 08/2008 (http://www.dwi.gov.uk/stakeholders/information-letters/2008/08_2008.pdf)

A.7 PRODUCTS BASED ON TRADITIONAL CHEMICALS

A.7.1 Traditional Chemicals

The following traditional chemicals (not currently covered by a specific appropriate BS EN) are considered by DWI to meet the requirements of the relevant regulations subject to the following condition -

The method of use and the purity of these products shall be such that, when used in the treatment of water intended for human consumption, the water so treated shall meet the appropriate requirements of the Water Supply (Water Quality) Regulations. .

Calcium chloride
Calcium sulphate
Citric acid (food grade) - for use only in cleaning of membranes
Crushed flint (e.g. Flintag)
Ferrous chloride
Magnesium carbonate
Magnesium hydroxide
Magnesium sulphate - use only for re-mineralisation with RO membrane systems
Magnetite (Iron oxide (Fe₃O₄))
Products supplied as mixture of magnesium hydroxide and magnesium oxide
Sodium chloride
Sodium sulphate
Lithium Salts

For this product the following additional condition applies:

The use of lithium salts for meter calibration in water mains is acceptable providing that the maximum concentration of lithium in water supplied to consumers does not exceed 0.10 mg l⁻¹ at any time (the analytical method used for lithium determination should have an accuracy better than ±0.01 mg l⁻¹ at 0.10 mg l⁻¹)

A.7.2 On-site electrolytic generation of chlorine

Products in this section are not fully covered by EN 901 (Sodium Hypochlorite) and must conform to the following conditions of use:

(i) the method of use and the purity of the output of these products shall be such that, in the case of water for public supply, the water so treated meets the requirements of the relevant Regulations, and

(ii) the treated water must not contain more than 700 µg/l chlorate.

Grundfos Water Treatment

DWI 56/4/864 [Selcoperm](#)

Severn Trent Services Ltd

DWI 56/4/549 [Clortec cell](#)

Siemens Plc

DWI 56/4/775 [Sodium hypochlorite generated by the OSEC system](#)

A.7.3 On-site generation of chlorine dioxide

Products in this section are not fully covered by EN 12671 (Chlorine dioxide) or introduce chlorine dioxide directly into supply once generated. The following products must conform to the following conditions of use:

(i) the method of use and the purity of the output of these products shall be such that, in the case of water for public supply, the water so treated meets the requirements of the relevant Regulations, and

(ii) the combined concentration of chlorine dioxide, chlorite and chlorate shall not exceed 0.5mg/l as chlorine dioxide in the water entering supply.

Scotmas Ltd

DWI 56/4/999 [Scotmas Purate CDDS \(Chlorine Dioxide Dosing System\)](#)

DWI 56/4/1018 [Scotmas Zulu WXC \(Chlorine Dioxide Dosing System\)](#)

DWI 56/4/1038 [Scotmas Bravo MX \(Chlorine Dioxide Dosing System\)](#)

Ximax Water Solutions

DWI 56/4/998 [Xziox Chlorine Dioxide](#)

A.8 DISINFESTATION AGENTS

During the approval process there is no evaluation of a product's effectiveness, only of its safety in use. An approval given in this section does not certify that the Authorities are satisfied that the product is effective, but only that it is safe for use in accordance with the Instructions for Use supplied.

The fact that a product is approved does not justify any claim about its effectiveness.

Bournemouth and West Hampshire Water Plc

DWI 56/4/720 [Permasect WT for use in disinfection of mains](#)

For this product the following conditions apply:

- (i) the dose applied must not cause the average and maximum concentration of permethrin or pyrethrins in water to exceed 10 and 20 $\mu\text{g l}^{-1}$ respectively;*
- (ii) the period of dosing should be kept to a minimum and must never exceed 7 days;*
- (iii) adequate account shall be taken of those water uses likely to be affected by the presence of permethrin or pyrethrins in water;*
- (iv) any water company proposing to use the product must give prior notification to the Authorities in accordance with agreed procedures; and*
- (v) permission or consent for disposal of any wastewater generated to a sewer or water course must be obtained from the relevant water service company or Environment Agency in England and Wales or Scottish Environment Protection Agency (SEPA) in Scotland, as appropriate.*

DWI 56/4/720 [Permasect WT for use in application to slow sand filters](#)

For this product the following conditions apply:

- (i) the dose must not exceed 100 $\mu\text{g/l}$ and the residual must not exceed 0.1 $\mu\text{g/l}$ in the treated water;*
- (ii) the period of dosing should be kept to a minimum and must never exceed more than once in a 28 day period;*
- (iii) prior to dosing, the water undertaker must establish that the filter bed to be dosed is intact and free from defects that would permit short-circuiting of normal flow pattern;*
- (iv) monitoring of permethrin in the final treated water entering supply must be carried out at daily intervals during the first 7 days following commencement of dosing; and*
- (v) permission or consent for disposal of any wastewater generated to a sewer or water course must be obtained from the relevant water service company or Environment Agency in England and Wales or Scottish Environment Protection Agency (SEPA) in Scotland, as appropriate.*

A.9 OTHER CHEMICALS

Airedale Chemical Company Ltd

DWI 56/4/960 [Airophos 750PWG](#)

Brenntag UK & Ireland Ltd

DWI 56/4/979 [TP Chlor](#)

B&V Water Treatment

DWI 56/4/1074 [Abulox](#)

Carus Chemical Company

DWI 56/4/631 [Carusol 20 Liquid Permanganates](#)

DWI 56/4/631 [Carusol 40 Liquid Permanganates](#)

Clear Solutions International

DWI 56/4/1118 PureBore

Industrial Chemicals Ltd

DWI 56/4/1025 Thycal

A.10 FILTER MEDIA

Direct Material Supplies Enviro Ltd

DWI 56/4/1048 Enviro Glasmedia

Dryden Aqua Ltd

DWI 56/4/382 Advance Filtration Media (AFM)

Ward Recycling Ltd

DWI 56/4/1106 Ward Recycling Filter Media

PART B: PRODUCTS USED FOR THE CONVEYANCE OF WATER

B.1 PIPES

B.1.1 Polyethylene (PE) pipes

Asset International Ltd

DWI 56/4/513 Weholite Pipe

Centraltubi S.P.A

DWI 56/4/913 Centraltubi

Dyka Plastics NV

DWI 56/4/575 Dyka Blue PE80 Pressure Pipes

EBERO Pipe Systems Ltd

DWI 56/4/829 Gerodur PE100 Blue Polyethylene Pipe

DWI 56/4/1115 Gerothern PE100 Polyethylene Pipes

egeplast international GmbH

DWI 56/4/1111 egeplast egelen (+) Plus Pipe

DWI 56/4/436 egelen PE 100 Blue

DWI 56/4/436 egelen PE100 Black

DWI 56/4/1065 egeplast 9010

Fusion Provida

DWI 56/4/548 Fusion Black 100

George Fischer Sales Ltd

DWI 56/4/957 GF PE100 Black Pipe

GPS

DWI 56/4/871 GPS Excel 3c (Black)

DWI 56/4/853 GPS Excel 3c (Blue)

DWI 56/4/850 GPS Excel (Blue)

DWI 56/4/851 GPS Excel (Black)

DWI 56/4/651 GPS N Blue PE80 Pipe

DWI 56/4/242 GPS B Light Blue Polyethylene Pipe

DWI 56/4/980 GPS F Black Polyethylene Pipe

DWI 56/4/946 GPS Excel CR

For the above product the following condition of use applies:

Approval applies to pipe diameters of 250mm or greater

DWI 56/4/961 GPS Excel (Black) Type F

For the above product the following condition of use applies:

Approval applies to pipe diameters of 200mm or greater

DWI 56/4/1026 GPS Excel NB

DWI 56/4/1050 GPS Excel NB Type V

National Oilwell Varco

DWI 56/4/644 AQFLEX

Pipelife Norge AS

DWI 56/4/811 Pipelife PE100 Pipes Black
DWI 56/4/778 Pipelife PE100 pipes Blue

Polypipe Building Products Ltd

DWI 56/4/1120 Blue PE80 Polyethylene Pipes (PC002 50R698)
DWI 56/4/968 Black PE80 Polyethylene Pipes
DWI 56/4/970 Blue PE80 Polyethylene Pipes
DWI 56/4/986 Black PE80 Polyethylene Pipes (ME3440)

Polypipe Ulster

DWI 56/4/1091 Blue PE80 Polyethylene Pipes

Quality Plastics Ltd

DWI 56/4/240 Qualplast Polyethylene Pipe
DWI 56/4/997 Qual-plast HDPE Pipe

Radius Systems Ltd

DWI 56/4/939 PE100 High Performance Dark Blue Pipe including Factory Sealed
DWI 56/4/940 PE100 High Performance Black Pipe
DWI 56/4/941 PE80 Medium Density Light Blue Pipe
DWI 56/4/942 PE80 Medium Density Black Pipe
DWI 56/4/943 PE100 High Performance Profuse Pipe including Factory Sealed

Simona UK Ltd

DWI 56/4/570 Simona PE100 SPS-Drinking Water Pipes (type TRST-SPC RO)
DWI 56/4/875 Simona PE100 Black pipe, manufactured using Hostalen CRP100 black or ELTEX TUB 121 N3000

Wavin Plastics Ltd

DWI 56/4/244 Wavin SupaSure Polyethylene Pipe
DWI 56/4/379 WavinBlack
DWI 56/4/750 WavinJet Pipe
DWI 56/4/244 WavinSure Polyethylene Pipe

B.1.2 Barrier and laminated pipes

Egeplast Werner Strumann GmbH &Co

DWI 56/4/589 Barrier pipes egeplast SLA 2.0
DWI 56/4/589 Laminated pipes egeplast SLM 2.0

GPS

DWI 56/4/872 GPS Protecta-Line
DWI 56/4 873 GPS Protecta-Line 3c
DWI 56/4/675 GPS Secura-Line Pipe Type S
DWI 56/4/700 GPS Secura-Line Pipe Type S Black
DWI 56/4/671 GPS Secura-Line Pipe Type N
DWI 56/4/676 GPS Secura-Line Pipe Type B
DWI 56/4/701 GPS Secura-Line Pipe Type B Black

Polypipe Building Products Ltd

DWI 56/4/857 Polyguard: Polyethylene/Aluminium/Polyethylene barrier pipes

DWI 56/4/1076 Polyguard: Polyethylene/Aluminium/Polyethylene barrier pipes (ME3444)

Radius Systems Ltd

DWI 56/4/508 Puriton (BPRB)

DWI 56/4/882 Puriton DB

Wavin Plastics Ltd

DWI 56/4/474 Trigon

B.1.3 Polyvinylchloride (PVC) pipes

Please note that all approved PVC pipes are made with non-lead stabilisers.

Durapipe UK

DWI 56/4/937 Durapipe Grey PVC-U Pipe NGS

Dyka B.V.

DWI 56/4/637 Dyka Grey PVC-U Pipe NGS

Uponor Ltd

DWI 56/4/658 Mondial PVC-O (NGS) Polyvinyl Chloride Pipe

DWI 56/4/810 Mondial PVC-O (GS2) Molecular Oriented Polyvinyl Chloride Pipe

DWI 56/4/723 Uponor A-Tech (PVC-A) Pipe

Wavin Ireland Ltd

DWI 56/4/600 Aquaforce (with non-lead stabiliser)

DWI 56/4/731 Wavinmain EN 1452 NGS

B.1.4 Acrylonitrile-butadiene-styrene copolymer (ABS)

Durapipe UK

DWI 56/4/660 Durapipe ABS Pipe Type S

George Fischer Sales Ltd

DWI 56/4/753 GF ABS pressure pipe

B.1.5 Polyethylene terephthalate (PET)

There are no products in this category

B.1.6 Glass reinforced plastic (GRP) pipes

Future Pipe Industries B.V.

DWI 56/4/656 Wavistrong Series

Iniziative Industriali SpA (Sarplast)

DWI 56/4/666 Plastiwind - for use upstream of a Reverse Osmosis unit only

B.1.7 Cement mortar lined pipes

For Products in this section, the following conditions applies:

Before connection to the supply, the water undertaker or their appointed agent, must carry out tests to establish that migration from the cement mortar lining will not cause a contravention of the upper prescribed concentration for hydrogen ion in the relevant Regulations.

B.1.7.1 Cement Mortar Lined Pipes without seal coat

Duktus

DWI 56/4/948 Duktus Ductile iron pipes with cement mortar lining for the carriage of Drinking Water

Electrosteel Castings Ltd

DWI 56/4/992 Electrofresh Ductile Iron Pipe

Erciyas Celik Boru Sanayi A.S

DWI 56/4/1047 Erciyas Steel Water Pipe – Cement Lined

European Pipeline Group

DWI 56/4/1114 European Pipeline Group Svobodny Sokol Ductile Iron Pipe

FT Pipeline Systems Ltd

DWI 56/4/713 FT Pipelines Cement Lined Pipes

Fuchs Rohr GmbH

DWI 56/4/434 CSP Water Pipes

Jindal Saw Limited

DWI 56/4/933 JSAW-JAL-1A

DWI 56/4/935 JSAW-JAL-11A

DWI 56/4/493 Sertubi Ductile Iron Pipe with Internal Lining in Blast Furnace Cement Mortar

OAo Lipetsk Iron Works “Svobodny Sokol”

DWI 56/4/1003 Ductile Iron Pipes

Saint-Gobain PAM UK Ltd

DWI 56/4/283 System CL

Superior Pipeline Products Ltd

DWI 56/4/990 System Cement Mortar Lined Ductile Iron Pipe

B.1.7.2 Cement Mortar Lined Pipes with seal coat

Buderus Giesserei Wetzlar GmbH

DWI 56/4/625 Cement Mortar Lining coated with Hunting Waterline sealcoat

Electrosteel Castings Ltd

DWI 56/4/537 Electrofresh Plus Pipe lined with 3M Scotchkote Epoxy coating 162 PWX

Jindal Saw Ltd

DWI 56/4/934 JSAW-JAL-1B

DWI 56/4/936 JSAW-JAL-11B

Process Plant Networks Ltd

DWI 56/4/952 Cement Mortar Lining Sealed with Scotchkote 162 PWX

FT Pipeline Systems Ltd

DWI 56/4/559 CSP water pipe lined with Scotchkote 162 PWX

Saint-Gobain PAM UK Ltd

DWI 56/4/283 System XL

B.1.8 Pipes coated with factory applied nylon resin**Leyfos Plastics Limited**

DWI 56/4/615 Rilsan Nylon Green Coated Pipes and Fittings

B.1.9 Pipes coated with factory applied epoxy resin**Barnard Ltd**

DWI 56/4/710 Pipes lined with RESICOAT R4-FB HKC71R

DWI 56/4/597 Pipes lined with Scotchkote 206N

Barrier Limited

DWI 56/4/757 Barrier Pipeline lined with Copon Hycote 162 PWX

BSR Pipeline Services Ltd

DWI 56/4/661 BSR/EPW/003 - Pipegard P300

DWI 56/4/772 BSR/EPW/004 - Copon Hycote PWX

Conline Coatings B.V.

DWI 56/4/749 Conline Coatings Pipes lined with Copon Hycote 162 PWX

Erciyas Celik Boru Sanayi A.S.

DWI 56/4/989 Erciyas Steel Water Pipes

EUPEC

DWI 56/4/907 Frazer and Tabberer - EUPEC

Freeflow Pipesystems

DWI 56/4/601 Pipes Lined with Scotchkote 206N

DWI 56/4/817 Pipes Lined with Resicoat R4-FB HKC71R

Process Plant Networks Ltd

DWI 56/4/944 PPN Pipe Lined with Scotchkote 162PWX

Noksel Steel Pipe Co Inc

DWI 56/4/832 Steel pipes coated with Copon Hycote 162PWX

Northpoint Ltd

DWI 56/4/602 Pipes lined with Scotchkote 206N

DWI 56/4/659 Pipes lined with Resicoat R4-FB HKCO4R

Orrmac Coatings Limited

DWI 56/4/771 Pipes and Fittings lined with Resicoat R4-FB HKC71R

DWI 56/4/985 Pipes lined with Scotchkote 162PWX

Pipeline Protection Services Ltd

DWI 56/4/605 Pipes lined with 3M Scotchkote Epoxy Coating 162PWX

Plastic Coatings Ltd

DWI 56/4/606 Pipes lined with Scotchkote 206N

Saint-Gobain PAM UK Ltd

DWI 56/4/618 PaM Natural Pipeline Components

STS Tubular Group

DWI 56/4/993 Steel pipe coated with 3M Scotchkote Epoxy Coating 162PWX

UTS Engineering Ltd

DWI 56/4/1085 Fabricated mild steel pipework coated with Scotchkote 162pwx

B.1.10 Stainless steel pipes**ABC Stainless Ltd**

DWI 56/4/542 Q Pipe System

Acciona Agua

DWI 56/4/965 Prep-Tec Stainless Steel Products

DWI 56/4/966 Mainser Duplex Stainless Steel Pipework

AJ Engineering & Construction Services Ltd

DWI 56/4/561 AJE Stainless Steel Pipe Systems

Alpha Plus Ltd

DWI 56/4/692 Stainless Steel Pipework

Amari Metals Ltd

DWI 56/4/738 AAlco Stainless Steel Tubes

ASD Metal Services

DWI 56/4/876 ASD Stainless Steel tubes and pipes

BSS Industrial

DWI 56/4/1017 Stainless Steel Tubings and Fittings

Damstahl Stainless Ltd

DWI 56/4/715 Damstahl FF

DWI 56/4/715 Damstahl PT

DWI 56/4/719 Damstahl SE

DWI 56/4/719 Damstahl SP

DH Stainless Ltd

DWI 56/4/773 Stainless Steel Metric Bore and ANSI welded Pipes

Dustacco Engineering Ltd

DWI 56/4/647 DE Stainless Steel Systems

Gallagher & McKinney Ltd

DWI 56/4/616 Stainless Steel Pipe & Fittings grades

George Green (Keighley) Ltd

DWI 56/4/699 Stainless Steel Pipework & Fittings - Flanged/Screwed - All diameters & Grades

Homer Burgess Ltd

DWI 56/4/1107 Tanks and associated Pipework, Weir Plates and Baffle Plates manufactured from Stainless steel suitable for use with drinking water

J.K. Fabrications Limited

DWI 56/4/574 JKF 304 and 316 Stainless Steel Pipelines

L.E.S Engineering Ltd

DWI 56/4/830 Pipework / Tanks / Vessels

MMP Fabrications Ltd

DWI 56/4/784 Stainless Steel Pipework

Powerrun Project Management Ltd

DWI 56/4/782 Powerrun Fabricated 304L Stainless Steel Pipework

DWI 56/4/769 Powerrun fabricated stainless steel pipework

Rolled Alloys

DWI 56/4/652 ZERON 100 super duplex stainless steel pipe work and components

Ross-shire Engineering Ltd

DWI 56/4/1034 Stainless steel process pipework systems

Sandvik Materials Technology Ltd

DWI 56/4/704 Sandvik 3R12

DWI 56/4/704 Sandvik 3R60

DWI 56/4/704 Sandvik 3R64

DWI 56/4/704 Sandvik 3R65

DWI 56/4/704 Sandvik 3R66

DWI 56/4/704 Sandvik SAF2205

DWI 56/4/704 Sandvik SAF2507

Sitemech Utilities Ltd

DWI 56/4/909 SMU Stainless Steel Pipework System

Stainless Metric Stock Ltd

DWI 56/4/569 Stainless Metric Stock - SMS100

Staptina Engineering Services Ltd

DWI 56/4/567 Staptina 316L Pipework

UTS Engineering Ltd

DWI 56/4/1071 UTS Stainless steel pipe liner

Varis Engineering Ltd

DWI 56/4/956 Process Pipework Systems

Wolseley UK Ltd

DWI 56/4/819 [Wolseley Stainless Steel Pipes and Tubes](#)

B.1.11 Coated pipes suitable for total immersion in water**Saint-Gobain PAM UK Ltd**

DWI 56/4/283 [System XL](#)

For the following product, the following condition applies:

Before connection to the supply, the water undertaker or their appointed agent, must carry out tests to establish that migration from the cement mortar lining will not cause a contravention of the upper prescribed concentration for hydrogen ion in the relevant Regulations .

DWI 56/4/283 [System CL](#)

B.1.12 Pipes coated with a factory applied Polyolefin**Saint-Gobain PAM UK Ltd**

DWI 56/4/823 [Blutop](#)

B.2 WELL CASINGS, SCREENS AND RISING MAINS**Angus Flexible Pipelines**

DWI 56/4/1020 [Angus Wellmaster Flexible Rising Main](#)

For the above product, the following condition applies:

Prior to use the water supplier carries out a risk assessment to provide for a suitable flushing regime validated, where appropriate, by monitoring when the product has been out of supply for a period of time.

Boode UK Ltd

DWI 56/4/958 [Boode Waterwell Systems PVC Screen and Casing](#)

Johnson Filtration Systems

DWI 56/4/653 [Screens, Casing and Accessories for Water Wells](#)

Scottish Water Solutions

DWI 56/4/722 [Stainless Steel Borehole Riser Pipework](#)

Stuwa-Konrad Stukerjurgan GmbH

DWI 56/4/1060 [Stainless Steel Screens, Casings, Fittings and Accessories](#)

DWI 56/4/1061 [PVC Screens, Casings, Fittings and Accessories](#)

DWI 56/4/1077 [STUWA Stainless Steel Riser Pipes](#)

B.3 PRODUCTS FOR CONVEYANCE OF WATER - EMERGENCY USE

For products in this section the following condition applies:

These products are primarily intended for emergency use and are approved for limited use only and may not be permanently installed in, or used in conjunction with any system for treating or distributing public water supplies. If the proposed use will extend beyond a 90 day period of use on any one occasion, then advice from the DWI should be sought before installation and use.

NOTE: some of these products may be suitable for limited use during planned maintenance. In this case it is the responsibility of the water supplier to undertake a thorough risk assessment of the proposed use, including fitness-for-purpose and why other products, already fully approved under the relevant regulations cannot be used. Use of any of these products during planned maintenance shall be in accordance with the condition set out above.

B.3.1 Hoses

Angus Flexible Pipelines

DWI 56/4/1005 [Super Aquaduct](#)

For the above product, the following conditions apply:

- (i) *after disinfection the product is flushed for its entire length before being brought into service, and*
- (ii) *when in use the main is kept continually in flow.*

Snap-Tite Europe. B.V.

DWI 56/4/62 [Snap-Tite TE Range – Blue Hose](#)

B.3.2 Bowsers/tanks

JFC Manufacturing (Europe) Ltd

DWI 56/4/765 [Emergency Water Tank](#)

Kingspan Environmental Containers

DWI 56/4/736 [Emergency Potable Water Storage Tanks](#)

Trailer Engineering

DWI 56/4/707 [Emergency Drinking Water Bowsers](#)

Western

DWI 56/4/825 [Aquastax and Polytank Emergency bowsers/tanks](#)

DWI 56/4/693 [Mobile bowsers/tanks](#)

Whale Tankers Ltd

DWI 56/4/694 [Medium Capacity Whale Drinking Water Bowser](#)

DWI 56/4/662 [Whale Drinking Water Bowser](#)

B.3.3 Liner bag

Arlington Packaging (Rental) Ltd

DWI 56/4/796 Arlington 1000 Litre Bag-in-Box Combo Liner

Rapak

DWI 56/4/849 1100LLA956

PART C: LINING /COATINGS AND SEALANT & REPAIR MATERIALS

C.1 IN-SITU INSTALLED (TUBULAR) PIPE LININGS

Aqualiner Ltd

DWI 56/4/910 Water Pipe Lining

C.2 IN-SITU APPLIED PIPE COATINGS

In-situ applied lining products approved for use by the Authorities for the relining of existing water mains/pipes must be applied in accordance with strict operational requirements as documented in the Water Industry Information & Guidance Note IGN 4-02-02 <http://www.water.org.uk/home/member-services/wis-and-ign/archived-documents/ign-4-02-02.pdf> "Code of Practice: In-situ resin lining of water mains" and the Water Industry Specification WIS 4-02-01 <http://www.water.org.uk/home/member-services/wis-and-ign/archived-documents/wis-4-02-01-v2.1---march-2009.pdf> "Operational Requirements: In situ resin lining of water mains".

The coatings listed in this section have been subject to review by DWI (including testing), on the basis of their proposed use with inert substrates such as metallic or cement based structures (or as specified in the manufacturer's Instructions for Use (IFU)), and upon the detailed application and curing requirements set out in the IFU. They have not been evaluated for any other aspect, such as fitness for purpose.

For use with other non-metallic non-cementitious materials, such as plastics, other coatings/linings, and rubbers, a specific application for approval would be required for use of the coating with a specific substrate.

C.2.1 Coatings based on Epoxy Resins

These products must be applied by a certified contractor.

3M United Kingdom plc

DWI 56/4/760 3M Scotchkote Geopox GX 014

Subterra - part of RadiusPlus Ltd

WS 34/1/124 ELC 173/90

C.2.2 Coatings based on Polyurethane

These products must be applied by a certified contractor.

3M United Kingdom plc

DWI 56/4/336 3M Scotchkote Rapid Setting Polymeric Lining 169

DWI 56/4/657 3M Scotchkote Rapid Setting Polymeric Lining 169HB

DWI 56/4/645 3M Scotchkote Rapid Setting Polymeric Lining 169LV

DWI 56/4/1031 3M Scotchkote Pipe Renewal Liner 2400

DWI 56/4/1037 3M Scotchkote Pipe Protection Liner 2100

Subterra – part of RadiusPlus Ltd
DWI 56/4/698 [Fast-Line plus](#)

C.2.3 Coatings for Small Diameter Pipes

This section covers pipes up to 75mm internal diameter

3M United Kingdom plc

DWI 56/4/1032 [3M Scotchkote Rapid Setting Polymeric Lining 166L](#)

For the above product the following conditions apply;

- (i) this product must be applied by a certified contractor and;*
- (ii) this product must be applied following the operational requirements of the AIM document and;*
- (iii) coating shall be cured for a minimum of 4 hours at a minimum temperature of 7°C .*

Pipe Restoration Technologies LLC

DWI 56/4/995 [ePipe UK](#)

For the above product the following condition applies: *This product must be applied by a certified contractor in accordance with the IFU.*

C.3 SITE APPLIED COATINGS FOR WATER RETAINING STRUCTURES

The products listed below in this section, in addition to being approved for site applied coatings for water retaining structures, are suitable for use in large diameter mains where they can be applied by hand e.g. brush or spray.

The coatings listed in this section have been subject to review by DWI (including testing), on the basis of their proposed use with inert substrates such as metallic or cement based structures (or as specified in the manufacturer's Instructions for Use (IFU)), and upon the detailed application and curing requirements set out in the IFU. They have not been evaluated for any other aspect, such as fitness for purpose.

For use with other non-metallic non-cementitious materials, such as plastics, other coatings/linings, and rubbers, a specific application for approval would be required for use of the coating with a specific substrate.

C.3.1 Coatings based on Epoxy Resins

The following conditions apply unless otherwise indicated:

- (i) the minimum cure time is 16 hours; and*
- (ii) the minimum cure temperature is 3°C.*

3M United Kingdom plc

DWI 56/4/300 [3M Scotchkote Epoxy Coating 162PWX plus 3M Scotchkote Epoxy Coating 162PW Stripe Coat](#)

Leighs Paints (a wholly owned subsidiary of the Sherwin-Williams Group)

DWI 56/4/253 [Leighs Waterline P300](#)

Sika Ltd

DWI 56/4/197 [Sikagard 62](#)

For this product the following condition applies:

The product must be cured in accordance with the cure curves provided in the Instructions for Use. The required cure time can be calculated by the user from the minimum daily temperature at the site of application. If the temperature cannot be measured and recorded then a minimum cure period of 21 days must be used.

Subterra - part of RadiusPlus Ltd

WS 34/1/124 [ELC 173/90](#) For this product the following condition applies: *The product must be applied by a certified contractor.*

C.3.2 Coatings based on Polyurethane

3M United Kingdom plc

WS 34/1/75 [3M Scotchkote Urethane Coating 165PW](#)

For this product the following condition applies: *The product must be cured for a minimum period of 7 days at a minimum temperature of 7° C.*

DWI 56/4/613 [3M Scotchkote Urethane Sealer 165CS/3M Scotchkote Urethane Coating 165PW-PR](#)

For this product the following condition applies: *The product must be cured for a minimum period of 7 days at a minimum temperature of 7° C.*

BASF plc Construction Chemicals

DWI 56/4/1080 [Masterseal M808](#)

For the above product the following condition applies: *The product must be cured in accordance with the cure curves provided in the IFU. The required cure time can be calculated by the user from the minimum daily temperature at the site of application. If the temperature cannot be measured and recorded then a minimum cure period of 7 days at a minimum temperature of 7° C*

Irathenefutura A Division of ITW Ltd

DWI 56/4/276 [Aqualine 650 with Irabond BC50](#)

For the above product the following condition applies: *The product must be cured for a minimum of 21 days at a minimum temperature of 7°C*

Line-X Protective Coatings

DWI 56/4/874 [Aquaurethane Extreme](#)

For the above product the following condition applies:

- i) *The product must be cured for a minimum of 5 days at a minimum substrate temperature of 3°C and*
- ii) *this product is for use on water retaining structures only.*

C.3.3 Coatings based on Ebonite

IQL Ltd

DWI 56/4/748 [IQL 136 DW Hard Ebonite](#)

For this product the following condition applies:

This company has been granted approval to apply and cure this product on or within water retaining structures

C.4 FLEXIBLE COVERS AND LININGS FOR WATER RETAINING STRUCTURES

Note: Laminated flexible covers and linings for water retaining structures may not necessarily have been assessed for uses totally immersed in water, e.g. as baffles.

BASF Polyurethanes GmbH

DWI 56/4/880 [Elastocoast 6551/100](#)

DWI 56/4/954 [Elastocoast 6551/102](#)

For the above products the following conditions apply:

- (i) *this product is for use on raw water reservoirs only*
- (ii) *this product must be cured for a minimum period of 7 days at a minimum cure temperature of 7°C*

DWI 56/4/953 [Elastocoast 6551/103](#)

For the above product the following conditions apply:

- (i) *this product is for use on raw water reservoirs only*
- (ii) *this product must be cured for a minimum period of 48 hours at a minimum cure temperature of 7°C*

Flag S.p.a

DWI 56/4/856 [Flagon Geo P/AT](#)

Hylam Ltd

DWI 56/4/337 [Hylam FPA](#)

Sensor (UK) Ltd

DWI 56/4/1066 [Sensorline](#)

C.5 CEMENTITIOUS COATINGS

BASF Construction Chemicals (UK) Ltd

DWI 56/4/86 [Thoroseal FX 100](#)

DWI 56/4/86 [Thoroseal Plaster Mix/Acryl 60](#)

DWI 56/4/86 [Thoroseal/Acryl 60](#)

British Cement Association

DWI 56/4/465 [Cemline II](#)

For this product the following condition applies:

Use of these generic products must conform to the In-situ cement mortar lining-Operational Guidelines and Codes of Practice published by Water Research Centre plc, 1990 (ISBN 0902156 84 5).

Flexcrete

DWI 56/4/95 [Flexcrete Cementitious Coating 851 Grey](#)

DWI 56/4/95 [Flexcrete Cementitious Coating 851 White](#)

DWI 56/4/95 [Monolevel 844SP](#)

Fosroc Ltd

WS 34/1/109 [Nitocote CM 210](#)

For this product the following condition applies:

The minimum cure time is 7 days at a minimum temperature of 7°C

International Paint Ltd

DWI 56/4/1053 [Intercrete 4841](#)

For this product the following condition applies:

The product must be cured in accordance with the cure curves provided in the Instructions for Use. The required cure time can be calculated by the user from the minimum daily temperature at the site of application. If the temperature cannot be measured and recorded then a minimum cure period of 21 days must be used. The minimum temperature for application is 7⁰C.

DWI 56/4/1054 [Intercrete 4820](#)

For this product the following condition applies:

The product must be cured in accordance with the cure curves provided in the Instructions for Use. The required cure time can be calculated by the user from the minimum daily temperature at the site of application. If the temperature cannot be measured and recorded then a minimum cure period of 21 days must be used. The minimum temperature for application is 5⁰C.

Xypex (UK) LLP

DWI 56/4/487 [Xypex Admix C-1000 NF](#)

DWI 56/4/487 [Xypex Concentrate](#)

DWI 56/4/487 [Xypex Modified](#)

Irathaneutura- Division of ITW Ltd

DWI 56/4/293 [Irathane CR 94](#)

MorganEST

DWI 56/4/881 [UltraShell SX](#)

Natural Cement Distribution Ltd

DWI 56/4/840 [NATCEM AC](#)

Premcrete Ltd

DWI 56/4/1041 [Hydroseal FX](#)

DWI 56/4/1043 [Teknolevel FS](#)

Sika Ltd

DWI 56/4/1083 [Sikatop-Seal 107](#)

For this product the following condition applies:

The product must be cured for a minimum 7 days at a minimum temperature of 7⁰C.

Vandex International Ltd

DWI 56/4/1092 [Vandex BB 75](#)

DWI 56/4/1093 [Vandex BB White](#)

DWI 56/4/1094 [Vandex Concrete Grey](#)

DWI 56/4/1097 [Vandex Premix](#)

DWI 56/4/1098 [Vandex Super](#)

DWI 56/4/1099 [Vandex Uni Mortar 1](#)

C.6 SEALANT & REPAIR MATERIALS

BASF Construction Chemicals (UK) Ltd

DWI 56/4/1064 [Structurite/Acryl 60](#)

For this product, the following condition applies:

Before connection to the supply, the water undertaker or their appointed agent, must carry out tests to establish that migration from the cement mortar lining will not cause a contravention of the upper prescribed concentration for hydrogen ion in the relevant Regulations .

DWI 56/4/144 [Thoroflex 200 expansion joint system](#)

For this product the following condition applies: *This product must be cured in accordance with the cure curve provided in the IFU document otherwise this product must be cured for a minimum of 10days at a minimum temperature of 7⁰C.*

Flexcrete

DWI 56/4/95 [Fastfill](#)

DWI 56/4/95 [Monomix](#)

DWI 56/4/397 [Monomix WS](#)

DWI 56/4/95 [Steel Reinforcement Protector 841](#)

Fosroc Ltd

DWI 56/4/297 [Renderoc Plug 20](#)

International Paint Ltd

DWI 56/4/1055 [Intercrete 4802](#)

For this product the following condition applies:

The product must be cured in accordance with the cure curves provided in the Instructions for Use. The required cure time can be calculated by the user from the minimum daily temperature at the site of application. If the temperature cannot be measured and recorded then a minimum cure period of 21 days must be used. The minimum temperature of application is 10⁰C

DWI 56/4/1056 [Intercrete 4871](#)

For this product the following condition applies:

The product must be cured in accordance with the cure curves provided in the Instructions for Use. The required cure time can be calculated by the user from the minimum daily temperature at the site of application. If the temperature cannot be measured and recorded then a minimum cure period of 21 days must be used. The minimum temperature of application is 10⁰C

Natural Cement Distribution Ltd

DWI 56/4/1090 [NATCEM 35](#)

DWI 56/4/840 [NATCEM AC](#)

DWI 56/4/1049 [NATCEM DW](#)

DWI 56/4/1089 [Shotcrete 513](#)

Premcrete Ltd

DWI 56/4/1042 [Teknocem HB50](#)

DWI 56/4/1044 [Teknocem Rapid](#)

DWI 56/4/1045 [Teknoprime 841](#)

Samuel Cooke & Co Ltd

DWI 56/4/718 [Fastplug Cement](#)

Sika Ltd

DWI 56/4/94 [Plastocrete OC](#)

DWI 56/4/94 [Sika 1](#)

For these products the following condition applies:

This product is approved for use with Portland BS12 cement.

DWI 56/4/94 [Sika 4a](#)

DWI 56/4/94 [Sika AER](#)

For these products the following condition applies:

This product is approved for use with Portland BS12 cement.

DWI 56/4/216 [Sika Monotop 610/612](#)

For this product the following condition applies:

The product must be cured in accordance with the cure curves provided in the Instructions for Use. The required cure time can be calculated by the user from the minimum daily temperature at the site of application. If the temperature cannot be measured and recorded then a minimum cure period of 21 days at a minimum substrate temperature for application is 5°C.

DWI 56/4/834 [Sika Monotop 610/615 Concrete Repair System](#)

For this product the following condition applies:

The product must be cured in accordance with the cure curves provided in the IFU. The required cure time can be calculated by the user from the minimum daily temperature at site of application. If the temperature cannot be measured and recorded then a minimum cure period of 21 days at a minimum substrate temperature for application is 5°C.

DWI 56/4/94 [Sikacem 133 Gunit](#)

For this product the following condition applies:

The minimum cure time is 21 days.

DWI 56/4/94 [Sikadur Combiflex SG jointing system using Sikadur 31 DW](#)

For this product the following condition applies:

This product must be cured for a minimum cure period of 21 days at a minimum temperature of 7°C.

Vandex International Ltd

DWI 56/4/1096 [Vandex Plug](#)

DWI 56/4/1095 [Vandex Mineralit](#)

Xypex (UK) LLP

DWI 56/4/487 [Xypex Patch'n Plug](#)

PART D: MEMBRANE AND FILTRATION SYSTEMS

For products in this section the following general condition applies:

Products must be installed upstream of any final point of disinfection.

Note: A list of membranes considered by the Drinking Water Inspectorate to be capable of continuously removing or retaining particles greater than 1-micron diameter was available on the DWI website. This list is now no longer available as membranes used must be fit for intended use.

D.1 MEMBRANE AND FILTRATION ELEMENTS/SYSTEMS

Amazon Filters Ltd

DWI 56/4/702 Amazon SupaGard Cartridge Filters

DWI 56/4/702 Amazon SupaSpun II Cartridge Filters

Amiad Filtration Systems Ltd

DWI 56/4/456 Filtomat Microcheck System

DWI 56/4/113 Filtomat Microfibre AMK 36K Filter Unit

DWI 56/4/113 Filtomat Microfibre AMK 370K Filter Unit

DWI 56/4/113 Filtomat Microfibre AMK93K Filter Unit

Arkal Filtration Systems CS Ltd

DWI 56/4/425 Spinclean 3 SK 2-2 Filter

Hydranautics BV

DWI 56/4/680 CPA3 Range of Reverse Osmosis Membrane Systems

DWI 56/4/686 ESPA2 Range of Reverse Osmosis Membrane Systems

DWI 56/4/689 HYDRAcap

DWI 56/4/683 SWC Range of Membrane Filtration Elements

Kalsep UK Ltd

DWI 56/4/277 Fibrotex Aqua Filter Elements

Koch Membrane Systems

DWI 56/4/269 ROGA 8060-UF-D Membrane Elements

DWI 56/4/1030 ROGA 8040-UF-325 Membrane Elements

Pall Europe Ltd

DWI 56/4/795 Pall Microza UNA-620C microfiltration module

DWI 56/4/793 Pall Microza UNV-6203 micro-filtration modules

DWI 56/4/314 Pall 'Ultipor' 'GF Plus' filter type MWH27

DWI 56/4/743 Pall 'Ultipor' 'GFC

DWI 56/4/943 Pall Coreless Filter Media

Pridesa Proyectos e Instalaciones de Desalación S.A.

DWI 56/4/696 Amazon Cartridge Filter PA-9B-1500

Siemens plc

DWI 56/4/972 Memcor CMF-L L10C Continuous Microfiltration Module (polypropylene membranes)

DWI 56/4/973 Memcor CMF- S S10V Range of Microfiltration submodules (submerged PVDF Membranes) with optional Memcor EF

DWI 56/4/974 Memcor CMF-M10V Continuous Microfiltration Module (PVDFMembranes)

Siemens plc (cont)

- DWI 56/4/975 Memcor CMF-M10C Continuous Microfiltration Module (Polypropylene Membranes)
- DWI 56/4/976 Memcor CMF-S S10T Microfiltration Submodule (submerged Polypropylene Membranes) optional Memcor EF
- DWI 56/4/977 Memcor CMF-L L10V Range of Microfiltration Submodules (PVDF Membranes)
- DWI 56/4/978 Memcor CMF-L L20V Range of Microfiltration Submodules (PVDF Membranes)
- DWI 56/4/53 Memcor Continuous Microfiltration (CMF) M1/M2 System

USFilter-Memcor, Microfloc and General Filter Products

- DWI 56/4/761 MULTIBLOCK Filter Underdrains

Water Process Ltd

- DWI 56/4/234 C10 Module
- DWI 56/4/76 CA202 membrane
- DWI 56/4/627 CA222 membrane
- DWI 56/4/215 ES404 membrane

X-FLOW B.V.

- DWI 56/4/967 Aquaflex HP
- DWI 56/4/324 S-150 FSFC Membrane Filtration Elements
- DWI 56/4/324 S-225 FSFC Membrane Filtration Elements
- DWI 56/4/1024 Seaflex HP
- DWI 56/4/1021 Seaguard
- DWI 56/4/1022 Seaguard HP
- DWI 56/4/324 SXL-150 FSFC Membrane Filtration Elements
- DWI 56/4/324 SXL-225 FSFC Membrane Filtration Elements
- DWI 56/4/1023 XIGA HP

Zenon Environmental Inc

- DWI 56/4/756 ZeeWeed 1000 V3 Membrane Filtration Module
- DWI 56/4/628 ZeeWeed 500c, Membrane Filtration Module

Zenon Europe Kft

- DWI 56/4/835 ZeeWeed 500d (340) Membrane Filtration Module
- DWI 56/4/835 ZeeWeed 500ds (350) Membrane Filtration Module
- DWI 56/4/835 ZeeWeed 500d (440) Membrane Filtration Module

D.2 VESSELS AND CONTAINERS FOR MEMBRANE AND FILTRATION ELEMENTS

Amazon Filters Ltd

DWI 56/4/879 Cartridge and Bag Filter Housings

Fileder Filter Systems

DWI 56/4/848 SBH/PBH (Bag Housings)

DWI 56/4/848 EFH/SFH/PFM (Cartridge Housings)

Pentair Water India Pvt Ltd

DWI 56/4/288 Codeline RO Membrane Housing Codeline 80S Series (Coded Vessels)

DWI 56/4/288 Codeline RO Membrane Housing Codeline 80S Series (Non-coded Vessels)

For these products the following condition applies:

The product may only be used upstream of reverse osmosis filtration

D.3 ELECTRODIALYSIS WATER TREATMENT UNITS

GE Power & Water, Water and Process Technologies

DWI 56/4/480 Electro dialysis Water Treatment Unit

D.4 FILTER MEDIA CONTAINING SYSTEMS

Industrial Purification Systems Ltd

DWI 56/4/1117 Crossflow AMF 901

DWI 56/4/1121 Crossflow AMF 1201

PART E: OTHER WATER TREATMENT WORKS INSTALLATIONS

E.1 TANKS

ABC Stainless Ltd

DWI 56/4/542 ABC Storage, process tanks and vessels

DWI 56/4/705 Replacement GAC Tank

AJ Engineering & Construction Services Ltd

DWI 56/4/561 AJE Stainless Steel Tank

AMT Systems Ltd

DWI 56/4/1019 AMT Filter tanks, Storage tanks, Process tanks and vessels

APT Marine Engineering Ltd

DWI 56/4/697 Replacement Water Clarifier Tank

Crossland Tankers (Burnley) Ltd

DWI 56/4/792 Tanks for transportation of drinking water

CST Industries (UK) Ltd

DWI 56/4/621 Aquastore Vitrium EN

DWI 56/4/1063 Aquastore Glass 97EN

Forbes Technology Ltd

DWI 56/4/335 Cheetah tanks (polypropylene)

DWI 56/4/335 Lion Range (polypropylene inner surface backed with glassfibre laminate)

Homer Burgess Ltd

DWI 56/4/1107 Tanks and associated Pipework, Weir Plates and Baffle Plates manufactured from Stainless steel suitable for use with drinking water

J.K. Fabrications Limited

DWI 56/4/732 JKF 304 and 316 Stainless Steel Tanks

L.E.S Engineering Ltd

DWI 56/4/830 Pipework/Tanks/Vessels

MMP Fabrications Ltd

DWI 56/4/785 Stainless Steel Storage Tanks

Permastore Ltd

DWI 56/4/594 Isofusion (vitreous enamelled tank)

Powerrun Project Management Ltd

DWI 56/4/611 Stainless Steel Grade 316L Potable Water Reservoir Tanks

Sayer Road Tankers Ltd

DWI 56/4/1028 Stainless Steel Water Tanks

Silotank (Digestors, Silos & Tanks) Ltd

DWI 56/4/747 Connaught Range of Tanks
DWI 56/4/747 Connaught Range of Towers
DWI 56/4/498 Leinster Range of Thermoplastic Tanks
DWI 56/4/498 Leinster Range of Towers

E.2 UNDERDRAINS

AMT Systems Ltd

DWI 56/4/708 Lateral Filter Underdrain System
DWI 56/4/709 Monolithic Floor Filter Underdrain System

Black & Veatch

DWI 56/4/833 K Filter Floor

Johnson Filtration Systems

DWI 56/4/908 Stainless Steel Triton Underdrain

Plasmor Ltd

DWI 56/4/988 Plasmor E Block

Severn Trent Services Ltd

DWI 56/4/522 Tetra LP Block System

USFilter-Memcor, Microfloc & General Filter Products

DWI 56/4/761 MULTIBLOCK Media Retaining Gravity Filter Underdrains

Xylem Water Solutions Zelienople LLC

DWI 56/4/371 Leopold Type S Underdrain and I.M.S Cap
DWI 56/4/371 Leopold Type SL Underdrain and I.M.S Cap
DWI 56/4/1078 Leopold Type S Underdrain and I.M.S 200 Media Retainer
DWI 56/4/1078 Leopold Type SL Underdrain and I.M.S 200 Media Retainer
DWI 56/4/1079 Leopold Type S Underdrain and I.M.S 1000 Media Retainer
DWI 56/4/1079 Leopold Type SL Underdrain and I.M.S 1000 Media Retainer

For some products, including underdrains, Section 3.4 of Advice Sheet 7 indicates that products constructed from clay can be used without approval subject to the water supplier carrying out a risk assessment for suitability of the product and its possible impact on drinking water quality.

E.3 PRESSURE VESSELS

Charlotte Reservoirs

DWI 56/4/1016 Hydrochoc Butyl Bladder Surge Vessel

Compressor & Power Engineers Ltd

DWI 56/4/560 CPE Pressure Vessels - 316L Stainless Steel
DWI 56/4/560 CPE Pressure Vessels-304 Stainless Steel

Midas Technologies (GB) Ltd

DWI 56/4/767 Aqua-HiLo

MMP Fabrications Ltd

DWI 56/4/786 Stainless Steel Pressure Vessels

Portobello Fabrications Ltd

DWI 56/4/788 Pressure Filter Vessel

DWI 56/4/646 Saturator/Degasser Vessel

The product listed below can only be used upstream of a Reverse Osmosis unit.

DWI 56/4/827 Pressure Filter Water Collector Pipework

Quantum Engineering Developments Ltd

DWI 56/4/558 Quantum Pressure Vessels- 304L

DWI 56/4/558 Quantum Pressure Vessels- 316L

E.4 OTHER PRODUCTS USED IN THE TREATMENT OF WATER**2H Water Technologies a trading division of GEA Heat Exchangers Ltd**

DWI 56/4/878 TUBEdek FS41.50/84 PP

Atlantic Water Ltd

DWI 56/4/1119 AWG 1500

Celtic Vacuum Ltd

DWI 56/4/846 Stainless Steel Baffle Wall

Degremont UK Limited

DWI 56/4/695 Lamella Module DH50/DH80

Flo-dyne Limited

DWI 56/4/962 Surge Protector- Model Type SAC

Forbes Technology Ltd

DWI 56/4/711 Cheetah Tower Packings

GB Filters Ltd

DWI 56/4/820 Aries Managed Air System

Homer Burgess Ltd

DWI 56/4/1107 Tanks and associated Pipework, Weir Plates and Baffle Plates manufactured from Stainless steel suitable for use with drinking water

Hydro International Ltd

DWI 56/4/608 Hydro International - Dynasand Sand Filter DS5000AD and Dynasand Sand Filter DST30D

DWI 56/4/622 Hydro International - Lamella Plate Separator

ITT Lowara UK Ltd

DWI 56/4/963 GMD-GHV-GMS-GXS-GTKS Manifolds

L.E.S Engineering Ltd

DWI 56/4/830 Pipework/Tanks/Vessels

Memcor Ltd

DWI 56/4/609 Memcor EF

Nijhuis Water Technology B.V.

DWI 56/4/620 IPF and NPF model of Dissolved Air Flotation units

Ormiston Wire Ltd

DWI 56/4/828 316 Stainless Steel Wire Rope

Paques B.V.

DWI 56/4/768 Astraseparator ARS-C

DWI 56/4/724 Astraseparators ARS-standard

Purac Ltd

DWI 56/4/741 Saturator Vessel Pall Rings

Scottish Water Solutions

DWI 56/4/740 Stainless steel baffle walls for Floc/DAF cells

Severn Trent Services Ltd

DWI 56/4/632 Rapid Gravity Filter Air Header

Veolia Water Systems Ltd

DWI 56/4/770 Package Actiflo and Multiflo

Water-Line Solutions Ltd

DWI 56/4/1015 WLS Stainless Steel Baffle Curtain

PART F: LOW CONTACT COMPONENTS AND PRODUCTS

INTRODUCTION

The relevant Regulations cover products used in contact with water intended for human consumption where the contact surface area and/or contact time are low. These products do not require the same rigorous evaluation as that applied to products such as pipes and their coatings. Full details of the types of products covered under this requirement are given in Section 3 of Advice Sheet 8 (<http://www.dwi.gov.uk/drinking-water-products/advice-and-approval/Advicesheet8.pdf>). This Advice Sheet also contains guidance on the use of these components and products in the provision of public water supplies.

CHANGES TO APPROVALS AND AMENDMENTS TO THE LIST OF APPROVED PRODUCTS

1.1 Modified Conditions of Approval

Information letter http://www.dwi.gov.uk/stakeholders/information-letters/2006/09_2006.pdf: update on the *in-situ* resin lining of water mains under Regulation 31 (10) (b) of the Water Supply (Water Quality) Regulations 2000 (2001 Wales), and Information Letter 4/2006 issued under the Water Supply (Water Quality) (Scotland) Regulations 2001 in Scotland.

1.2 List of Products refused Approval under Regulation 31 (4) (a)

Company Name	Product Name
Polypipe Building Products	Polypipe Effast ABS Pressure Pipe
Stanton Bonna	GRP pipe with Scotchkote 165PW
Mandals AS	Mandals Wellman Hose
Amitech	FLOWTITE-Pipe

1.3 Prohibition of use of Substances and Products

The Authorities have not recently prohibited the use of any substances or products.

1.4 Revocation of Approval

Company Name	Product Name
A & J Fabrications Ltd	Dirty Wash Water Cleaning System
Creto International Inc Evercrete Corporation	Evercrete DPS
MC Building Chemicals	MC Injectopress 2300T
Pentair Water Treatment	Codeline Pressure Vessel E8B/SP
	Codeline Pressure Vessel E8L/SP
	Codeline Pressure Vessel E8S/SP
	Codeline Pressure Vessel E8U/SP
PTI Technology	Steelflow
Rivitswade	Pipes lined with Copon Hycote 162 PWX
Delkor Ltd	Spiral Separator
*The following products are revoked only for emergency use, other listings of them remain valid	
Aqua Cure plc	ACHY SHP*
	Aqua Dosa Sanitiser*
Ceratherm Ltd	Biotant*
ROAM Chemie NV	Huwa-San TR5*
	Huwa-San TR50*
	Tiosan*
SafeSol Ltd	SafeSol 3*
Swissteril International 5755 Ltd	Steril*
Water Treatment Products Ltd	Sanosil SO15*
	Sanosil Super 25*
	Sanosil Super 25 Ag*

1.5 Approval of Processes

Please see Frequently Asked Question 6 - <http://www.dwi.gov.uk/drinking-water-products/faqs/FAQ6.pdf>

1.6 Deletions from the list of approved products in the last twelve months

1.6.1 Products deleted because they are no longer supplied

If these products were purchased before the date of withdrawal or removal they may still be used provided they remain fit for purpose. These products must be used under the conditions of approval prior to their withdrawal from the List.

Company Name	Product Name	Date of Removal
Kalsep UK Ltd	PBT Fibrotex Filter Element	07/02/13
Vexamus Water Ltd	304 Stainless Steel Thin Wall Pipework 50NB to 1000NB	07/03/13
	316 Stainless Steel Thin Wall Pipework 50NB to 1000NB	07/03/13
Medentech	Aquatabs 17mg	17/05/13
	Aquatabs 67mg	17/05/13
Subterra – a division of Daniel Contractors Ltd	Subcoil	05/08/13
Durapipe UK	Durapipe Pipe ABS Type F	09/09/13
3M UK Ltd	3M Scotchkote Epoxy Coating 162PW	09/09/13
Polypie Building Product Ltd	Polypipe HDPE Pipe	18/10/13
	TUB 121	18/10/13
	TUB 124	18/10/13
Subterra part of RadiusPlus Ltd	Fast-Line	10/02/14

1.6.2 Products deleted because they are covered by a BS EN

Company	Product Name	BS EN Number
GEH Wasserchemie GmbH	GEH ferric hydroxide	15029:2006
Lanxess Deutschland GmbH	Bayoxide E33P	15029:2006
Traditional Product	Magnesium Oxide	16004:2011
Permacare-Nalco	Permatreat PC-191	15040:2006

The Authorities remain satisfied that the substances or products listed above are unlikely used alone to affect adversely the quality of water. Consequently, the relevant Regulations authorise its application to, or introduction into, water supplied for regulation 4(1) purposes.

1.7 Changes in ownership or designation of approved products in the last twelve months

The following companies have had ownership of existing product approvals transferred to other companies, or have changed the name of the product:

1.7.1 Change in company name or ownership

COMPANY NAME		Date of Change
Old	New	
Vexamus Water Ltd	Hydro International	13/03/13
ITT Water & Wastewater Leopold Inc	Xylem Water Solutions Zelenople LLC	03/04/13
DRC Polymer Products Ltd	Hylam Ltd	22/05/13
NKT Flexible	National Oilwell Varco	14/01/14
Subterra a division of Daniels Construction	Subterra part of RadiusPlus Ltd	10/02/14

1.7.2 Change in product designation in the last twelve months

Company	PRODUCT NAME		Date of Change
	Old	New	
Xylem Water Solutions Zelenople LLC	HDPE Universal Underdrain with IMS Cap	Leopold Type S Underdrain with I.M.S Cap	03/04/13
	HDPE Universal Underdrain with IMS Cap	Leopold Type SL Underdrain with I.M.S Cap	03/04/13
Hydro International (Wastewater) Ltd	Dynasand Sand Filter DS5000AD & Dynasand Sand Filter DST30D	Hydro International – Dynasand Filter DST30D and Dynasand Sand Filter DS5000AD	31/07/13
	Lamella Plate Pack LP225 & Lamella Plate Separators Flocculant Tank & Lamella Plate Separators LP Range (LP80, PL100, LP140, LP170, LP190) & Lamella Plate Separators LS Range (LS25, LS40, LS60, LS100, LS120) & Lamella Plate Separators LT Range (LT15, LT25, LT40, LT60)	Hydro International – Lamella Plate Separator	31/07/13
Polypipe Building Product Ltd	Polypipe MDPE Pipe	Blue PE80 Polyethylene Pipes (PC002 50R698)	18/10/13

1.8 Additional Products added to the List in the last twelve months (consolidated into the main text of this list)

1.8.1 New Products approved in the last twelve months

Company	Product	Date of acceptance
3M United Kingdom PLC	Scotchkote Pipe Protection Liner 2100	15/03/13
Stuwa-Konrad Stukerjürgen GmbH	STUWA Stainless Steel Riser Pipes	18/03/13
Sensor (UK) Ltd	Sensorline	20/03/13
National Cement Distribution Ltd	NATCEM DW	21/03/13
Xylem Water Solutions Zelenople LLC	Leopold Type S Underdrain with I.M.S 200 Media Retainer	03/04/13
	Leopold Type SL Underdrain with I.M.S 200 Media Retainer	03/04/13
Xylem Water Solutions Zelenople LLC	Leopold Type S Underdrain with I.M.S 1000 Media Retainer	03/04/13
X-Flow B.V.	Seaguard HP	19/03/13
	XIGA HP	19/03/13
	Seaguard	19/03/13
	Seaflex HP	19/03/13
egeplast Werner Strumann GmbH & Co KG	egeplast 9010	19/04/13
UTS Engineering LTD	Fabricated mild steel pipework coated with Scotchkote 162pwx	26/04/13
Zenon Europe Kft	ZeeWeed 500ds (350) Membrane Filtration Module	19/04/13
Homer Burgess Ltd	Tanks and Associated Pipework, Weir Plates, and Baffle Plates manufactured from Stainless Steel suitable for use with drinking water	22/05/13
Ward Recycling Ltd	Ward Recycling Filter Media	08/10/13
Nalco Europe B.V.	Permatreat PC-191T	24/10/13
Industrial Purification Systems Ltd	Crossflow AMF 901	25/10/13
	Crossflow AMF 1201	29/10/13
egeplast international GmbH	egeplast egelen (+) Plus Pipe	31/10/13
Clear Solutions International Ltd	Pure-Bore	11/11/13
Koch Membrane Systems	ROGA 8040-UF 325	15/11/13
Atlantic Water Co Ltd	AWG 1500	19/11/13
BASF Construction Chemicals	Masterseal M808	10/12/13
Stuwa-Konrad Sturjerjürgen GmbH	PVC Screens, Casings, Fittings and accessories	13/12/13

1.8.2 Previously approved, now reinstated in the last twelve months

Company	Product	Date of removal	Date of acceptance

1.9 Changes to existing products in the last twelve months

This table reflects the changes that have been made to products and include changes in relation to Instructions for Use, conditions of use, etc

Company	Product	Nature of Change	Date of acceptance
Sika Ltd	Sikatop Seal 107	IFU	12/02/13
APT Marine Engineering Ltd	Replacement Water Clarifier Tank	Dimension	25/02/13
Subterra	Fast-Line Plus	Additional manufacturing site	25/02/13
DRC Polymer Products Ltd	Hylam FPA	IFU	29/04/13
Stuwa-Konrad Stukerjürgen GmbH	Stainless Steel Riser	Material	05/07/13
Zenon Europe Kft	ZeeWeed 500d (340)	IFU	19/04/13
	ZeeWeed 500d (440)	IFU	19/04/13
Flexcrete Technologies Ltd	Flexcrete Cementitious Coating 851 Grey	Material	09/07/13
	Flexcrete Cementitious Coating 851 White	Material	09/07/13
	Steel Reinforcement Protector 841	Material	09/07/13
3M United Kingdom plc	3M Scotchkote Pipe Protection Liner 2100	IFU	19/04/13
Hylam Ltd	Hylam FPA	Company name	22/05/13
Siemens plc	Memcor CMF-S S10V	IFU	2/12/13
	Memcor CMF-S S10V & S10T	Material	22/12/13
	Memcor CMF-S S10V, CMF-L L10V, CMF-L L20V & CMF-M10V	Material	17/12/13
	Memcor CMF-S S10T, CMF M1/M2, CMF-L L10C & CMF-M 10c	Material	17/12/13
	Memcor CMF-S S10T, CMF M1/M2, CMF-L L10C & CMF-M 10c	Material	17/12/13
Saint-Gobain PAM UK	System CL	Additional manufacturing site	07/01/14
Subterra part of RadiusPlus Ltd	Fast-Line Plus	IFU & company name	10/02/14

1.10 New applications and re-approvals

The tables below provide the current status of the new applications received for approval and the status of products called for re-approval. These tables are only accurate at the time of publication and more up to date tables can be found at the appropriate link.

1.10.1 Table for new applications under consideration

The current status of these new applications are illustrated in the last column denoted by the following letters:

U – application under consideration.

W – application withdrawn by applicant and date of withdrawal. This entry will be deleted from this table after twelve months.

The up to date version is available from the website using this [link](#) the up to date version will contain new applications and recent approvals that have taken place after the publication of this list.

DWI Ref 56.4.xx	Company	Product	Status
984	Aquasource	Membrane Module Series AC300	U
1001	Erciyas Ltd	Erciyas Steel coated pipe with Eurokote 468 Thixo	U
1004	Insituform UK	Insitumain	U
1013	Zenon	ZeeWeed 1500 Module	U
1033	GPS	Excel	U
1035	Hempel A/S	Hempadur PW	U
1036	Insituform UK	Insitumain (A)	U
1039	ITW IrathaneFutura	Polyurea 2000 + Irabond BC50	U
1040	Nu Flow Technologies	Nu Flow 7000 system	U
1052	Spencer Coatings Ltd	Acothane DW Cream	U
1057	WTB International Ltd	TOM PVC-O Pipes	U
1058	Spencer Coatings Ltd	Acothane LV Sealer	U
1059	Spencer Coatings Ltd	Acothane DW Blue	U
1061	Stuwa Konrad Stukerjurgan GmbH	PVC Screens, Casings, Fittings and Accessories	U
1062	Proquip Direct Ltd	Boreline	U
1073	X-Flow B.V	HF Nano Tubular Membranes	U
1075	MC-bauchemie GmbH & Co.KG	MC-RIM PW20	U
1081	BS Coatings SAS-Axson Group	Endoprene 85-40	U
1086	Grace Construction Products Ltd	Eclipse Floor	U
1101	K2O Consulting	DMI-65	U

DWI Ref 56.4.xx	Company	Product	Status
1105	Xylem Water Solutions Zelenopole LLC	Leopold Type XA Underdrain with I.M.S Cap, 200 & 1000 Media Retainers	U
1113	PMP Planned Maintenance (Pennine) Ltd	AMEX-10 Internal Pipe Sealing System	U
1114	European Pipeline Engineering Ltd	European Pipeline Group/Svobodny Sokol Ductile Iron Pipes	U
1116	Siltbuster Process Solutions Ltd	Diffused Air Floatation Unit	U
1122	Jindal Saw Gulf LLC	JSGL-JAL-1A	U
1123	Kobell Fluid Technology Ltd	Guardsman GT 190 Antiscalant for Membrane Systems	U
1124	Sika Ltd	Sikadur Combiflex SG Jointing System using Sikadur 31 DW Rapid	U
1125	Innovative Membrane Technology B.V.	8060UF/MB/R	U
1126	Innovative Membrane Technology B.V.	8060UF/MB/RX	U
1127	STS Tubular Group	Steel Pipes coated with Hempel Hempadur DW	U
1129	Eco Pond Ltd	Extract of Barley Straw	U

1.10.2 Table for products called for re-approval

The current status of these applications undergoing re-approval are illustrated in the last column denoted by the following letters:

C – application called for re-approval.

L – application for re-approval not received and has passed the deadline for submission.

Materials team will be chasing for submission, if no receipt then the product will be withdrawn from the List of Approved Products.

L* - application late, but DWI informed of delayed submission.

S – application received and re-approval being evaluated.

The up to date version is available from the website using this [link](#) the up to date version will contain new applications and recent approvals that have taken place after the publication of this list.

DWI Ref 56.4.xx	Company	Product	Status
481	Rohm & Haas (UK) Ltd	Acumer 1100	L
481	Rohm & Haas (UK) Ltd	Acumer 4035	L
481	Rohm & Haas (UK) Ltd	Acumer 4450	L
481	Rohm & Haas (UK) Ltd	Acumer 4800	L
063	Rohm & Haas (UK) Ltd	IMAC HP 336	S
063	Rohm & Haas (UK) Ltd	IMAC HP 555	S
758	Rohm & Haas (UK) Ltd	Amberlite PWA5	S

DWI Ref 56.4.xx	Company	Product	Status
513	Asset International Ltd	Weholite Pipe	S
388	GE Betz/GE Power & Water, Water & Process Technologies	Hypersperse MDC 150	S
388	GE Betz/GE Power & Water, Water & Process Technologies	Hypersperse MDC 220	S
434	Fuchs Rohr GmbH	CSP Water Pipes	L
436	Egeplast Werner Strumann GmbH & Co	Egelen PE100 Blue	S
436	Egeplast Werner Strumann GmbH & Co	Egelen PE100 Black	S
480	GE Power & Water, Water and Process Technologies	Electrodialysis Water Treatment Unit	S
487	Xypex (UK) LLP	Patch 'n Plug	S
491	Passavant-Roediger Anlagenbau GmbH	Lamellar Separator Plates	L
508	Radius Systems Ltd	Puriton (BPRB)	S
516	Outokumpu	Stainless Steel Pipes of 12mm bore or greater	L
526	Simona UK Ltd.	Simona PE100 Pressure Pipe (type TRST RO) blue	L
535	DYKA B.V.	Dyka Blue HDPE – 80 pressure pipes	L
535	DYKA B.V.	Dyka Blue HDPE -100 pressure pipes	L
545	Waterman Environmental Services Ltd	MIOX on-site Electrolytic sodium Hypochlorite Generators MIOX-250	L
551	KWH Pipe (UK) Ltd	KWH Hostalen CRP 100 Black	S
551	KWH Pipe (UK) Ltd	KWH Hostalen CRP 100 Blue	S
558	Quantum Engineering Developments	Quantum Pressure Vessels 304L	S
558	Quantum Engineering Developments	Quantum Pressure Vessels 316L	S
560	Compressor and Power Engineers Ltd	CPE Pressure Vessel – 304L Stainless Steel	S
560	Compressor and Power Engineers Ltd	CPE Pressure Vessel – 316L Stainless Steel	S
062	Snap-Tite Europe B.V.	Snap-Tite TE Range – Blue Hose	S
086	BASF Construction Chemicals (UK) Ltd	Thoroseal FX 100	L
1103	BASF Construction Chemicals (UK) Ltd	Thoroseal with thoro acryl 60	L
425	Arkal Filtration Systems CS Ltd	Spinclean 3 SK 2-2 Filter	L*
561	AJ Engineering & Construction Services Ltd	AJE Stainless Steel Pipe Systems	L

DWI Ref 56.4.xx	Company	Product	Status
567	Staptina Engineering Services Ltd	Staptina 316L Pipework	S
569	Stainless Metric Stock Ltd	Stainless Metric Stock - SMS100	L
570	Simona UK Ltd	Simona PE100 SPS-Drinking Water Pipes (type TRST-SPC RO)	L
573	Roam Chemie NV	Huwa-San TR50	S
575	Dyka Plastics NV	Dyka Blue PE80 Pressure Pipes	L
577	Genesys International Ltd	Genesys HR	L
579	Subterra - a division of Daniels Contractors Ltd	Fast-Line	S
589	Egeplast Werner Strumann GmbH &Co	Barrier pipes egeplast SLA 2.0	S
589	Egeplast Werner Strumann GmbH &Co	Laminated pipes egeplast SLM 2.0	S
593	Genesys International Ltd	Genesys SI	L
600	Wavin Ireland Ltd	Aquaforce (with non-lead stabiliser)	S
602	Northpoint Ltd	Pipes lined with Scotchkote 206N	L
606	Plastic Coatings Ltd	Pipes lined with Scotchkote 206N	L
609	Memcor Ltd	Memcor EF	S
610	Genesys International Ltd	Genesys MG	L
613	3M United Kingdom plc	3M Scotchkote Urethane Sealer 165CS/3M Scotchkote Urethane Coating 165PW-PR	L
616	Gallagher & McKinney Ltd	Stainless Steel Pipe & Fittings grades	L
620	Nijhuis Water Technology B.V.	IPF and NPF model of Dissolved Air Flotation units	S
637	Dyka B.V.	Dyka Grey PVC-U Pipe NGS	S
641	Aquabiotics Industrial Pty Ltd	BoreSaver Ultra C Plus	S
642	Aquabiotics Industrial Pty Ltd	BoreSaver Liquid	L
646	Portobello Fabrications Ltd	Saturator/Degasser Vessel	L
651	GPS	GPS N Blue PE80 Pipe	S
653	Johnson Filtration Systems	Screens, Casing and Accessories for Water Wells	S
658	Uponor Ltd	Mondial PVC-O (NGS) Polyvinyl Chloride Pipe	L
659	Northpoint Ltd	Pipes lined with Resicoat R4-FB HKCO4R	S
661	BSR Pipeline Services Ltd	BSR/EPW/003 - Pipegard P300	L

1.11 New and revised BS EN standards issued in the last twelve months

The results of the issue of new standards may require the removal of products listed in the main body of the text. Products removed from the main body of the text can be found in table 1.6.2 earlier in this section. Titles of the relevant BS ENs can be found in the tables in Annex 2.

BS EN Number	Revision/New	Comment	Date published by BSi
15482:2012	Revision	Minor changes- labelling National Conditions still apply	28/02/13
15028:2012	Revision	Minor changes- labelling National Conditions still apply	28/02/13
12124:2012	Revision	Minor changes- labelling	28/02/13
15030:2012	Revision	Minor changes- labelling National Conditions still apply	28/02/13
15029:2012	Revision	Minor changes- labelling	28/02/13
12910:2012	Revision	Minor changes- labelling	28/02/13
12913:2012	Revision	Minor changes- labelling	28/02/13
12912:2012	Revision	Minor changes- labelling	28/02/13
12909:2012	Revision	Minor changes- labelling	28/02/13
12120:2012	Revision	Minor changes- labelling	28/02/13
12121:2012	Revision	Minor changes- labelling	28/02/13
1421:2012	Revision	Minor changes- labelling	28/02/13
12125:2012	Revision	Minor changes- labelling	28/02/13
12126:2012	Revision	Minor changes- labelling	28/02/13
12123:2012	Revision	Minor changes- labelling	28/02/13
896:2012	Revision	Minor changes- labelling	28/02/13
897:2012	Revision	Minor changes- labelling	28/02/13
898:2012	Revision	Minor changes- labelling	28/02/13
901:2013	Revision	Minor changes – labelling	31/08/13
16370:2013	New	Under review	31/08/13
12911:2013	Revision	Minor changes – labelling	31/08/13
16409:2012	New	Under review	31/12/13
936:2013	Revision	Minor changes – labelling	31/12/13
12174:2013	Revision	Minor changes – labelling	30/06/13
12175:2013	Revision	Minor changes – labelling	30/06/13
15664:2008 + A1:2013	Revision	Additional Normative Annex	31/1/14

ANNEX 2

LIST OF RELEVANT EUROPEAN STANDARDS

2.1 British Standards BS EN for Chemicals used for Treatment of Water

IMPORTANT NOTES

- 1. The existence of a relevant EN standard does not necessarily mean that all supplies of a specific treatment chemical or product will have been tested to and shown to meet the appropriate requirements of the EN. These standards contain requirements for impurities and may additionally have a National Condition of Use assigned to them.*
- 2. Since EN standards for drinking water treatment chemicals and products do not contain mandatory requirements for attestation of conformity, it is the responsibility of the user of these products to ensure that the treatment chemicals or products provided by a specific supplier fully meet the test requirements of the relevant EN standard by provision of a certificate of attestation for the batch of chemical supplied or by internally checking through their own laboratories.*
- 3. The standards have been written for a specific function in water treatment. Full details where a treatment chemical or product is used outside of normal use, advice should be sought from the DWI and approval may be required.*
- 4. It is recommended that end users of treatment chemicals or materials that have an BSEN associated to them have access to the current version to ensure that the product supplied conforms.*

Note - we are unable to recommend laboratories to undertake testing of individual treatment chemicals for conformity with these standards; responsibility of such testing is with the manufacturer and/or end user.

For all of the chemicals listed the following general national condition of use applies:

The method of use and the purity of these products shall be such that, in the case of water for public supply, the water so treated meets the requirements of the relevant regulations .

BS EN	Chemical	Additional National Conditions of Use	Use
13194: 2008	Acetic acid	None	Source of carbon for biological denitrification
881: 2004	Aluminium chloride, aluminium chloride hydroxide and aluminium chloride hydroxide sulfate (monomeric)	None	Coagulant and precipitant
935: 2004	Aluminium iron (III) chloride (monomer) and aluminium iron (III) chloride hydroxide (monomeric)	None	Coagulant and precipitant
887: 2004	Aluminium iron (III) sulfate	None	Coagulant and precipitant
878: 2004	Aluminium sulfate	None	Coagulant
12122: 2005	Ammonia solution	None	For in-situ bacteriostatic treatment by formation of chloramines
12123: 2012	Ammonium sulfate	None	For in-situ bacteriostatic treatment by formation of chloramines
1421: 2012	Ammonium chloride	None	For in-situ bacteriostatic treatment by formation of chloramines
1407: 2008	Anionic and nonionic polyacrylamides	<p>(i) no batch must contain more than 0.020% of free acrylamide monomer based on the active ingredient content;</p> <p>(ii) the dose must average no more than 0.25 mg l⁻¹ and never exceed 0.50 mg l⁻¹ of the active ingredient;</p> <p>(iii) an upper limit for the content of free acrylamide monomer must be stated by the supplier for every batch;</p> <p>(iv) the method used for the analysis for free acrylamide monomer is entitled 'Determination of Acrylamide' published in the series 'Methods for the Examination of Waters and Associated Materials' by the Environment Agency.</p>	Removal of colloidal and fine suspended particles and as a flocculant
1018: 2006	Calcium carbonate	None	pH and hardness adjustment
900: 2007	Calcium hypochlorite	None	Removal of ammonium compounds, oxidising sulphides, oxidation of iron and

BS EN	Chemical	Additional National Conditions of Use	Use
			manganese and disinfectant
16003:2011	Calcium Magnesium Carbonate	None	pH and hardness adjustment
1204: 2005	Calcium tetrahydrogen bis(orthophosphate)	None	Corrosion inhibition in water pipes consisting of cast iron, mild or galvanized steel or copper. To achieve an improved corrosion inhibition, also combination products with polyphosphates are used depending on the water quality.
936: 2013	Carbon dioxide	None	Increase water hardness, pH adjustment and regeneration of ion exchange resins
1410: 2008	Cationic polyacrylamides	<i>(i) no batch must contain more than 0.020% of free acrylamide monomer based on the active ingredient content; (ii) the dose must average no more than 0.25 mg l⁻¹ and never exceed 0.50 mg l⁻¹ of the active ingredient; (iii) an upper limit for the content of free acrylamide monomer must be stated by the supplier for every batch; and (iv) the method used for the analysis for free acrylamide monomer is entitled 'Determination of Acrylamide' published in the series 'Methods for the Examination of Waters and Associated Materials' by the Environment Agency.</i>	Coagulant and flocculant for colloidal or fine suspended particles
937: 2009	Chlorine	None	Disinfectant, removal of ammonia compounds, oxidising sulphides and regeneration of ion exchange resins
12671: 2009	Chlorine dioxide	<i>The combined concentration of chlorine dioxide, chlorite and chlorate should not exceed 0.5mg l⁻¹ as chlorine dioxide in the water entering supply.</i>	Disinfection and oxidation
12386: 2012	Copper sulfate	None	Cleaning of containers used for drinking water treatment and destruction of algae in water works installations

BS EN	Chemical	Additional National Conditions of Use	Use
1202: 2005	Dipotassium hydrogen orthophosphate	None	Corrosion inhibition in water pipes consisting of cast iron, mild or galvanized steel or copper. To achieve an improved corrosion inhibition, also combination products with polyphosphates are used depending on the water quality.
1199: 2005	Disodium hydrogen orthophosphate	None	Corrosion inhibition in water pipes consisting of cast iron, mild or galvanized steel or copper. To achieve an improved corrosion inhibition, also combination products with polyphosphates are used depending on the water quality.
1205: 2005	Disodium dihydrogen pyrophosphate	None	Scale inhibitor
16409:2013	Dolomitic lime	Under review – contact DWI for further advice	Mineralise water after desalination. Adjust pH and hardness
13176: 2008	Ethanol	None	Source of carbon for biological denitrification
12175: 2013	Hexafluorosilicic acid	None	Increase resistance of consumers to dental decay
12518: 2008	High-calcium lime	None	pH and hardness adjustment
939: 2009	Hydrochloric acid	<i>Permission or consent for disposal of any wastewater generated to a sewer or watercourse must be obtained from the relevant water service company or Environment Agency, in England and Wales or Scottish Environment Protection Agency (SEPA) in Scotland as appropriate.</i>	Lower pH, ingredient for the generation of chlorine dioxide and regeneration of ion exchange resins
902: 2009	Hydrogen peroxide	<i>(i)Permission or consent for disposal of any wastewater generated to a sewer or watercourse must be obtained from the relevant water service company or Environment Agency in England and Wales or Scottish Environment Protection Agency (SEPA) in Scotland , as appropriate. (ii)Products conforming to EN902 shall not contain stabilising or activation agents. If a product contains such agents it requires approval under the relevant regulations .(iii)Prior to introduction into supply all</i>	An oxidant to remove oxidisable impurities and as a disinfectant (NB National Conditions of use apply)

BS EN	Chemical	Additional National Conditions of Use	Use
		<i>residual hydrogen peroxide must be demonstrably removed/destroyed</i>	
888: 2004	Iron(III) chloride	<i>None</i>	Primary coagulant
891: 2004	Iron(III) chloride sulfate	<i>None</i>	Primary coagulant
889: 2004	Iron(II) sulfate	<i>None</i>	Primary coagulant
890: 2012	Iron(III) sulphate liquid	<i>None</i>	Primary coagulant
14664: 2004	Iron(III) sulphate, solid	<i>None</i>	Primary coagulant
12126: 2012	Liquefied ammonia	<i>None</i>	For in-situ bacteriostatic treatment by formation of chloramines
16004:2011	Magnesium Oxide	<i>None</i>	pH adjustment and hardness
13177: 2010	Methanol	<i>None</i>	Source of carbon for biological denitrification
1406: 2009	Modified starches	<i>The dose must not exceed 5 mg l⁻¹ of active ingredient.</i>	Removal of colloidal and fine suspended particles
1204: 2005	Monocalcium phosphate	<i>None</i>	Corrosion inhibition in water pipes consisting of cast iron, mild or galvanized steel or copper.
1201: 2005	Monopotassium hydrogen orthophosphate	<i>None</i>	Corrosion inhibition in water pipes consisting of cast iron, mild or galvanized steel or copper. To achieve an improved corrosion inhibition, also combination products with polyphosphates are used depending on the water quality.
1197: 2006	Monozinc phosphate solution	<i>None</i>	Corrosion inhibition in water pipes consisting of cast iron, mild or galvanized steel or copper. To achieve an improved corrosion inhibition, also combination products with polyphosphates are used depending on the water quality.
12876: 2009	Oxygen	<i>None</i>	Oxidant, maintaining aerobic conditions, gas for ozone generation

BS EN	Chemical	Additional National Conditions of Use	Use
1278: 2010	Ozone	None	Disinfectant, improvement of organoleptic quality, removal of iron, manganese and colour, oxidation of persistent pollutants and a coagulant
974: 2003	Phosphoric acid	<i>Permission or consent for disposal of any wastewater generated to a sewer or watercourse must be obtained from the relevant water service company or Environment Agency in England and Wales or Scottish Environment Protection Agency (SEPA) in Scotland, as appropriate.</i>	Biological nitrification/denitrification and corrosion control eg plumbosolvency
15040: 2006	Phosphonic acids and salts – anitscalants for membranes	None	Antiscalant for reverse osmosis and nanofiltration membranes to prevent CaCO ₃ , CaSO ₄ , BaSO ₄ , SrSO ₄ , CaF ₂ scale deposition and fouling by iron, aluminium, manganese and silicates.
1408: 2008	Poly(diallyldimethylammonium chloride)	<i>The dose used must not exceed 10 mg l⁻¹ of active ingredient.</i>	Coagulant and flocculant for colloidal and fine suspended particles
883: 2004	Polyaluminium chloride hydroxide and polyaluminium chloride hydroxide sulfate	None	Coagulant and precipitant
885: 2004	Polyaluminium chloride hydroxide silicate	None	Coagulant and precipitant
886: 2004	Polyaluminium hydroxide silicate sulfate	None	Coagulant and precipitant

BS EN	Chemical	Additional National Conditions of Use	Use
1409: 2008	Polyamines	<p>(i) The average dose should be 2.5 mg l^{-1} and never exceed 5 mg l^{-1} of active ingredient;</p> <p>(ii) no batch must contain more than 40 mg of 3-monochloropropane 1,2-diol per kg of active ingredient;</p> <p>(iii) the analytical system used for determining the batch content must have a limit of detection no greater than 4 mg kg^{-1} and a maximum total standard deviation no greater than 4 mg kg^{-1} at 40 mg kg^{-1}. Both estimates must have at least 10 degrees of freedom and have been determined from batches of analyses carried out on not less than five separate days; and</p> <p>(iv) the supplier must state for every batch an upper limit for the content of 3-monochloropropane 1,2-diol.</p>	Coagulant and flocculant for colloidal and fine suspended particles
15039: 2006	Polycarboxylic acids and salts – antiscalants for membranes	None	Antiscalant for reverse osmosis and nanofiltration membranes to prevent CaCO_3 , CaSO_4 , BaSO_4 , SrSO_4 , CaF_2 scale deposition and fouling by iron, aluminium, manganese and silicates.
15041: 2006	Polyphosphates – antiscalants for membranes	None	Antiscalant for reverse osmosis and nanofiltration membranes
1201: 2005	Potassium dihydrogen orthophosphate	None	Corrosion inhibition in water pipes consisting of cast iron, mild or galvanized steel or copper. To achieve an improved corrosion inhibition, also combination products with polyphosphates are used depending on the water quality.
12672: 2008	Potassium permanganate	<p>(i) Treatment chemical may only be used upstream of Filtration/clarification, and</p> <p>(ii) Dosing is such that permanganate is not present when the treated water enters supply</p>	Taste and odour control, elimination of algae and microorganisms, removal of iron and manganese and regeneration of filter media

BS EN	Chemical	Additional National Conditions of Use	Use
12678: 2008	Potassium peroxomonosulfate	None	Oxidation of organic and inorganic matter
1211: 2005	Potassium tripolyphosphate	None	Scale inhibitor
15030: 2012	Silver salts for conservation of drinking water for intermittent use	On advice from HSE – these compounds may not be used in contact with water intended for human consumption.	
1205: 2005	Sodium acid pyrophosphate	None	Scale inhibition
1405: 2009	Sodium alginate	<i>the dose used must not exceed 0.5 mg l⁻¹ of active ingredient</i>	Removal of colloidal and fine suspended particles
882: 2004	Sodium aluminate	None	Coagulant and flocculant
1208: 2005	Sodium calcium polyphosphate	None	Corrosion and scale inhibition in water pipes consisting of cast iron, mild or galvanized steel or copper.
897: 2012	Sodium carbonate	None	Increase pH and alkalinity
15028: 2012	Sodium chlorate	<i>The requirements and national conditions of use of the final chlorine dioxide generated shall meet the requirements of BS EN 12671</i>	Ingredient for the generation of chlorine dioxide
16370:2013	Sodium chloride for on-site electrochlorination using membrane cells	Under review – contact DWI for further information	Used to produce active chlorine (Cl ₂ or NaClO) by electrolysis of brine for disinfection of water
14805: 2008	Sodium chloride for on-site electrochlorination using non-membrane technology	<i>The requirements and national conditions of use of the final hypochlorite generated shall meet the requirements of BS EN 901.</i>	Ingredient used to produce active chlorine (Cl ₂ or NaClO) for disinfection of water by electrolysis of brine
973: 2009	Sodium chloride for regeneration of ion exchangers	None	Regeneration of ion exchange resins
938: 2009	Sodium chlorite	<i>The requirements and national conditions of use of the final chlorine dioxide generated shall meet the requirements of BS EN 12671</i>	Ingredient for the generation of chlorine dioxide
12931: 2008 12932: 2008	Sodium dichloroisocyanurate, anhydrous Sodium dichloroisocyanurate, dihydrate	Conditions if product is used as a cleaning agent: <i>(i) the dose must be such that the final concentration in the water used to wash installations does not exceed 1000 mg l⁻¹ of free available chlorine;</i> <i>(ii) that following cleaning and disinfection, the installation is flushed to</i>	Disinfectant by generation of hypochlorous acid

BS EN	Chemical	Additional National Conditions of Use	Use
12933: 2008	Trichloroisocyanuric acid	<p>ensure that the residual chlorine concentration is acceptable to consumers; and</p> <p>(iii) permission or consent for disposal of any wastewater generated to a sewer or watercourse must be obtained from the relevant water service company or Environment Agency in England and Wales or Scottish Environment Protection Agency (SEPA) in Scotland, as appropriate.</p> <p>Water companies should check with their suppliers to ensure that products to be cleaned and disinfected will not be adversely affected by the concentration of chlorine to be employed.</p> <p>Conditions if product is used as an emergency disinfectant:</p> <p>(i) where circumstances are such that the water being treated is not grossly contaminated and a controlled contact time of not less than 15 minutes between dosing and taking it into use can be maintained, not more than 10 mg l⁻¹ of sodium dichloro-isocyanurate compound should be applied and not more than 1mg l⁻¹ of free residual chlorine should be present at the end of the relevant contact time. It is recommended that consumers should be exposed to such waters containing chloro-isocyanurates for only as long as is required to restore conventional treatment, or for no more than 90 days in any period of a year, whichever is applicable;</p> <p>(ii) under circumstances where water sources may be grossly contaminated, to ensure inactivation of most likely harmful organisms, up to 20 mg l⁻¹ sodium dichloro-isocyanurate may be added, with a recommended contact time of 15 minutes before use. It is recommended that consumption of water dosed at this rate of treatment should be for only as long as is necessary before it is possible to effect control of the residual chlorine after contact to 1 mg l⁻¹, and then to follow the requirements set out in condition (i); and</p> <p>(iii) should it be necessary for specific groups of consumers to be exposed to water containing chloro-isocyanurates for periods greater than 90 days either continuously or in a year, it is recommended that independent</p>	

BS EN	Chemical	Additional National Conditions of Use	Use
		<i>medical advice be obtained from a person who is not under the control of the water undertaker.</i>	
1198: 2005	Sodium dihydrogen orthophosphate	None	Corrosion inhibition in water pipes consisting of cast iron, mild or galvanized steel or copper. To achieve an improved corrosion inhibition, also combination products with polyphosphates are used depending on the water quality.
12121: 2012	Sodium disulfite	None	Reducing agent to remove excess chlorine, chlorine dioxide or ozone
12173: 2012	Sodium fluoride	None	Increase resistance of consumers to dental decay
12174: 2013	Sodium hexafluorosilicate	None	Increase resistance of consumers to dental decay
898: 2012	Sodium hydrogen carbonate	None	pH stabilisation and alkalinity adjustment
16037:2012	Sodium Hydrogen Sulfate	Under review – contact DWI for further information	Adjustment of pH, generation of chlorine dioxide, regeneration of adsorbents & ion exchange resins.
12120: 2012	Sodium hydrogen sulfite	None	Reducing agent to remove excess chlorine, chlorine dioxide or ozone
896: 2012	Sodium hydroxide	None	neutralising agent, adjustment of pH value, softening agent, alkalinity adjustment, regenerator for ion exchange resins
901: 2013	Sodium hypochlorite	<i>The method of use and the purity of these products shall be such that, in the case of water for public supply, the water so treated meets the requirements of the relevant regulations .</i>	Removal of ammonium compounds, oxidising sulphides, oxidation of iron and manganese and disinfectant While this standard is not applicable to sodium hypochlorite generated in-situ, the limits for impurities and chemical parameters apply

BS EN	Chemical	Additional National Conditions of Use	Use
15482: 2012	Sodium Permanganate	(i) Treatment chemical may only be used upstream of Filtration/clarification, and (ii) Dosing is such that permanganate is not present when the treated water enters supply	Taste and odour control, elimination of algae and microorganisms, removal of iron and manganese and regeneration of filtering material.
12926: 2008	Sodium peroxodisulfate	None	Oxidation of organic and inorganic matter and ingredient in the generation of chlorine dioxide
1212: 2005	Sodium polyphosphate	None	Corrosion inhibition in water pipes consisting of cast iron, mild or galvanized steel or copper. To achieve an improved corrosion inhibition, also combination products with polyphosphates are used depending on the water quality.
1209: 2003	Sodium silicate	None	Flocculant, corrosion inhibitor and sequestering agent for iron and manganese
12124: 2012	Sodium Sulfite	None	Reducing agent to remove excess chlorine, chlorine dioxide or ozone
12125: 2012	Sodium thiosulfate	None	Reducing agent to remove excess chlorine, chlorine dioxide or ozone
1210: 2005	Sodium tripolyphosphate	None	Scale inhibitor
1019: 2005	Sulfur dioxide	None	Removal of excess oxidising agents eg chlorine and ozone
899: 2009	Sulfuric acid	None	pH adjustment and regeneration of ion exchange resins
1207: 2005	Tetrapotassium pyrophosphate	None	Scale inhibitor
1206: 2005	Tetrasodium pyrophosphate	None	Scale inhibitor
1203: 2005	Tripotassium orthophosphate	None	Corrosion inhibition in water pipes consisting of cast iron, mild or galvanized steel or copper. To achieve an improved corrosion inhibition, also combination

BS EN	Chemical	Additional National Conditions of Use	Use
			products with polyphosphates are used depending on the water quality.
1200: 2005	Trisodium orthophosphate	<i>None</i>	Corrosion inhibition in water pipes consisting of cast iron, mild or galvanized steel or copper. To achieve an improved corrosion inhibition, also combination products with polyphosphates are used depending on the water quality.

2.2 British Standards BS EN for Products used for Treatment of Water Intended for Human Consumption

IMPORTANT NOTES

- 1. The existence of a relevant EN standard does not necessarily mean that all supplies of a specific treatment chemical or product will have been tested to and shown to meet the appropriate requirements of the EN. These standards contain requirements for impurities and may additionally have a National Condition of Use assigned to them.*
- 2. Since EN standards for drinking water treatment chemicals and products do not contain mandatory requirements for attestation of conformity, it is the responsibility of the user of these products to ensure that the treatment chemicals or products provided by a specific supplier fully meet the test requirements of the relevant EN standard by provision of a certificate of attestation for the batch of chemical supplied or by internally checking through their own laboratories.*
- 3. The standards have been written for a specific function in water treatment. Full details where a treatment chemical or product is used outside of normal use, advice should be sought from the DWI and approval may be required.*
- 4. It is recommended that end users of treatment chemicals or materials that have an BSEN associated to them have access to the current version to ensure that the product supplied conforms.*

Note - we are unable to recommend laboratories to undertake testing of individual treatment chemicals for conformity with these standards; responsibility of such testing is with the manufacturer and/or end user.

For all of the products listed the following general national condition of use applies;
The method of use and the purity of these products shall be such that the quality of treated drinking water meets the requirements of the relevant regulations.

BS EN	Title	Additional National Conditions of Use	Use
1017:2008	Half –burnt dolomite	None	Granular filter medium
12909: 2012	Anthracite	None	Filter medium
12912: 2012	Barite	None	A filtering or supporting material in multilayer filters
13754: 2009	Bentonite	None	used to weigh down a flock when there is a low amount of suspended solids in the water.
14456: 2004	Bone charcoal	<i>The contact bed containing the product must be adequately back-washed (until backwash water is clear of fines) to remove any readily leachable materials before connection to the supply.</i>	Remove colour, taste odour and wide range of metals, fluoride and certain other organic and inorganic contaminants.
12905: 2005	Expanded aluminosilicate	None	Filtering material and as a support for biofiltration
12910: 2012	Garnet	None	Used as a filtration and support material. It also has an application as a seeding material in pellet reactors.
13753: 2009	Granular activated alumina	<i>(i) the contact bed containing the product must be adequately back-washed (until backwash water is clear of fines) to remove any readily leachable materials before connection to the supply; and (ii) before connection to the supply, the water undertaker or their appointed agent must carry out tests on the filtrate water to establish that use of the contact bed will not cause any adverse effect on the quality of water to be put into supply. These tests must include measurement of chlorine demand and a qualitative odour assessment, as well as tests to confirm that leaching of activating agents or any other substance used in the preparation or regeneration of the product will not cause a contravention of the standards prescribed in the relevant regulations .</i>	the primary function of granular activated alumina is as an adsorbent for the removal of inorganic ions; particularly fluoride, arsenate, chromate and polar organic contaminants.
12915 - 1: 2009	Granular activated carbon. Part 1: Virgin GAC		The primary function of granular activated carbon is as an adsorbent for the removal of trace organic contaminants (e.g. Pesticides, chlorinated solvents, oils), taste and odour-producing compounds and trihalomethane precursors.
12915 - 2: 2009	Granular activated carbon. Part 2: Reactivated GAC		
12907: 2009	Pyrolised coal material		Pyrolised coal is used as a filtering material

BS EN	Title	Additional National Conditions of Use	Use
12901: 1999	Inorganic supporting and filtering materials – Definitions	<i>None</i>	
15029: 2012	Iron (III) hydroxide oxide	<i>None</i>	the primary function of iron (III) hydroxide oxide is as an adsorbent for the removal of inorganic ions; particularly arsenic, arsenate, phosphate, antimony compounds, other trace metals and polar organic contaminants.
14369: 2003	Iron-coated granular activated alumina	<i>None</i>	the primary function of iron-coated granular activate alumina is as an adsorbent for the removal of inorganic ions; particularly fluoride, arsenate and polar organic contaminants.
13752: 2009	Manganese dioxide	<i>None</i>	used as a catalytic filtering material for the removal of iron and manganese from water
14368: 2003	Manganese dioxide coated limestone	<i>None</i>	Catalytic filtering medium for removal of iron and manganese
12911: 2013	Manganese greensand	<i>None</i>	the primary function of manganese greensand is for removal of iron, manganese and hydrogen sulfide from water.
15795: 2010	Natural Unexpanded Aluminosilicates	Under consideration – please seek advice from DWI	used as filtering materials or as supporting material in multilayer filters.
12903: 2009	Powered activated carbon	<i>The dose must not exceed 100 mg l⁻¹.</i>	used as an adsorbent for the removal of trace organic contaminants (e.g. Pesticides, chlorinated solvents, oils) taste and odour-producing compounds and trihalomethane precursors.
12913: 2012	Powdered diatomaceous earth	<i>None</i>	used to remove solid contaminants from water by retention
12914: 2005	Powdered perlite	<i>None</i>	used to remove solid contaminants from water.
12906: 2005	Pumice	<i>None</i>	used as a filtering material
12904: 2005	Silica sand and silica gravel	<i>None</i>	used as filtering of supporting materials

2.3 British Standards BS EN on the Influence of Materials on Water Intended for Human Consumption

BS EN	Title
1302: 1999	Aluminium based co-agulants – Analytical methods
1420-1: 1999	Influence of organic materials on water intended for human consumption – Determination of odour and flavour assessment of water in piping systems
12485: 2010	Calcium carbonate, high-calcium lime and half burnt dolomite - Test methods
12873-1: 2003	Influence of materials on water intended for human consumption – Influence due to migration – Part 1: Test method for non-metallic and non-cementitious factory made products
12873-2: 2005	Influence of materials on water intended for human consumption – Influence due to migration – Part 2: Test method for non-metallic and non-cementitious site – applied materials
12873-3: 2006	Influence of materials on water intended for human consumption – Influence due to migration – Part 3: Test method for ion exchange and adsorbent resins
12873-4: 2006	Influence of materials on water intended for human consumption – Influence due to migration – Part 4: Test method for water treatment membranes
12902: 2004	Inorganic supporting and filtering materials – Methods of test
13052-1: 2001	Influence of materials on water intended for human consumption – Organic materials – Determination of colour and turbidity of water in piping systems – Part 1: Test method
14395-1: 2004	Influence of materials on water intended for human consumption – Organoleptic assessment of water in storage systems – Part 1: Test method
14718: 2006	Influence of organic materials on water intended for human consumption – Determination of the chlorine demand – Test Method
14944-1: 2006	Influence of factory made cementitious products on organoleptic parameters – Test methods – Part 1: Influence of factory made cementitious products on organoleptic parameters
14944-3: 2007	Influence of factory made cementitious products on organoleptic parameters – Test methods – Part 3: Migration of substances from factory-made cementitious products
15664-1: 2008 + A1:2013	Influence of metallic materials on water intended for human consumption – Dynamic rig test for assessment of metal release – Part 1: Design and operation
15664-2:2010	Influence of metallic materials on water intended for human consumption – Dynamic rig test for assessment of metal release – Part 2: Test Waters
16057:2012 *	Influence of metallic materials on water intended for human consumption – Determination of residual surface lead (Pb)- Extraction method
16058:2012 *	Influence of metallic materials on water intended for human consumption – Dynamic rig test for assessment of surface coatings with Nickel layers- Long term test method
16056:2012 *	Influence of metallic materials on water intended for human consumption- Method to evaluate the passive behaviour of Stainless Steels

* These methods have not been assessed for use. Please contact DWI for further Advice

2.4 List of Authorised Cement Admixture Components

The following list gives the chemical identity of admixture components considered acceptable for use in cement admixtures for use in concrete in contact with water in water retaining structures, providing the admixture is not added to the concrete at a concentration exceeding the manufacturer's recommended dose.

ADMIXTURE COMPONENT	USED AS
Abietic acid salts	Air entrainer
Acetic Acid	pH Balance
Aluminates, sodium or potassium	Accelerator
Aluminium hydroxides, amorphous	Accelerator
Anionic surfactants	Air entrainer
Butyl stearate	Waterproofing/ water repellent
Carbonate, sodium or potassium	Accelerator
Cellulose ethers	Stabiliser/pumping aid
Citric acid	Retarder
Decanoate, sodium	Air entrainer
Dimethylsiloxane, poly-	Defoamer agent for plasticisers/ superplasticisers
Dodecyl benzene sulphonate, sodium	Air entrainer
Fatty acid soaps	Waterproofing/ water repellent
Formate, calcium	Accelerator
Gluconic and Heptonic acid salts	Retarder/ water reducer/ plasticiser
Lauryl ether sulphate, sodium	Air entrainer
Lignosulphonates	Water reducer/ plasticiser
Mono and di saccharides, eg sucrose, xylose	Retarder
Nitrate, calcium, sodium or potassium	Accelerator
Oleic acid and salts	Waterproofing/ water repellent
Oxalate, lithium	Accelerator
Polysaccharides	Water reducer/ plasticiser
Phosphate, dibutyl	Defoamer agent for plasticisers/ superplasticisers
Phosphate, tributyl	Defoamer agent for plasticisers/ superplasticisers
Phosphates (inorganic)	Retarder
Phosphonates (organic)	Retarder
Polycarboxylate/ polyether copolymer	Superplasticiser
Silicates, sodium	Accelerator/ waterproofing
Starch ethers	Stabiliser/pumping aid
Stearate salts	Waterproofing/ water repellent
Sulphonated melamine formaldehyde condensate	Superplasticiser
Sulphonated naphthalene formaldehyde condensate	Superplasticiser
Tartaric acid	Retarder
Thiocyanate, sodium	Accelerator
Triethanolamine	Water reducer/ plasticiser

Note 1: Biocides/ preservative and agents, antifoam/ air control agents, present in the admixture at less than 1.0% in total and the dilution water used in cement admixture formulations are excluded from the requirement for authorisation.

Note 2: The use of ferrous or stannous sulphate is acceptable as reducing agents to control concentrations of hexavalent chromium (VI) in cement.

Note 3: Fibre additions to concrete - , the use of polymeric or carbon reinforcing fibres should not be a cause for concern, providing that either -

- concrete made with them, at the proposed concentration/level conforms with the requirements of BS 6920 odour and flavour and growth of aquatic microorganisms tests OR
- the reinforcing fibres have already met the requirements of BS 6920

RECOGNISED MATERIALS FOR USE IN THE MANUFACTURE OR ASSEMBLY OF PRODUCTS

The only products approved under the relevant regulations are those that will be supplied directly to drinking water suppliers for use in direct contact with water intended for human consumption. Materials used to make products used in water networks, treatment plants etc., are outside the scope of this remit and are not, therefore included in this List.

However it has proved helpful to manufacturers and suppliers of such products to provide details of suitable materials known not to have adverse effects on water quality or pose unacceptable health risks to consumers. Details of such “recognised materials” are incorporated into Advice Sheet 5, and cover particular grades of materials for use in the –

- extrusion of thermoplastics pipes
- factory application of coatings to products
- manufacture/fabrication of stainless steel structures

Advice Sheet 5 explains, in detail, how applications for approval of products made from these recognised grades of specific material types are handled. The listing of recognised materials in the Annexes of this Advice sheet does **NOT** imply –

- a) recommendation or approval of the material by DWI
- b) that products made from the grades listed will have suitable fitness for purpose qualities for their proposed use
- c) that no further testing will be required before a recommendation for approval can be made

NOTE - these materials have NOT been approved under the relevant Regulations , but are “recognised” as suitable for use in the manufacture of such products, subject to satisfactory results in any subsequent limited testing required. See Advice Sheet 5 for further information, including how to gain recognised status for a particular material – <http://www.dwi.gov.uk/drinking-water-products/advice-and-approval/Advicesheet5.pdf>

ANNEX 4**MANUFACTURERS' AND SUPPLIERS' ADDRESSES**

2H Water Technologies Ltd
Sketty Close
Brackmills Industrial Estate
Northampton
NN4 7PL
Tel: 0845 0039 114

3M United Kingdom PLC
23 Standard Way Ind Est
Northallerton
North Yorkshire
DL6 2XA
Tel: 01609 780170

ABC Stainless Steel Ltd
Empson Road
Eastern Industry
Peterborough
PE1 5UP
Tel: 01733 314515

Airedale Chemical Company Ltd
Airedale Mills
Skipton Road
Crosshills, Keighley
West Yorkshire
BD20 7BX
Tel: 01535 637876

AJ Engineering & Construction Services Ltd
West Road
Greshop Industrial Estate
Forres
Moray
IV36 2GW
Tel: 01309 671919

Alpha Plus Ltd
336 Coleford Rd
Darnall
Sheffield, South Yorkshire
S9 5PH
Tel: 0114 243 3594

Amari Metals Ltd
The Hersham Centre
Hersham Green
Hersham
Surrey
KT12 4HP
Tel: 01932 250100

Amazon Filters Ltd
Albany Park Estate
Frimley Rd
Camberley
Surrey
GU16 7PG
Tel: 01276 670600

Amiad Filtration Systems Ltd
Kibbutz Amiad
D.N. Galilelyon 1
12335 Israel
Tel: 00972 4690 9500

AMT Systems Ltd
Unit 14
West Stockwith Business
Park
Stockwith Road
Misterton
Doncaster
DN10 4ES
Tel: 01427 890022

Angus Flexible Pipelines
Station Road
Bentham
Lancaster
LA2 7NA
Tel: 01524 264000

Arlington Packaging (Rental) Ltd
Units 16/17
Salisbury Road
Business Park
Pewsey
SN9 5PZ, England
Tel: 01672 563723

APT Marine Engineering Ltd
Humber Bank South
Fish Docks
Grimsby
North East Lincolnshire
DN31 3SD
Tel: 01472 362550

Aqua Cure plc
Aqua Cure House
Hall Street
Southport, Merseyside
PR9 0SE
Tel: 01704 516 916

Aquabiotics Pty Ltd
14 Goongarrie Street
Bayswater 6053
Western Australia
Tel: 0061 89379 2911

Aqualiner Ltd
Unit 10 Charnwood
Business Park
North Road
Loughborough
Leicestershire LE11 1QJ
Tel: 01509 224234

Aquatreat Group Ltd
Stanley House
9 Bunting Close
Mitcham
Surrey
CR4 4ND
Tel: 020 8401 8391

Arch Chemicals S.A
28 Rue Jean Jaures
BP 2016
Les Mureaux Cedex
France
78132
Tel: 0033 130 999900

**Arkal Filtration Systems
CS Ltd**
Kibbutz Bet Zera
MP Jordan Valley 15135
Israel
Tel: 00972 6 6775140

**Ashland Industries UK
Ltd**
Alfreton Trading Estate
Somercotes
Derbyshire DE55 4LR
Tel: 01642 822298

Asset International Ltd
Stephenson Street
Newport
South Wales
NP19 4XH
Tel: 01633 273081

ASD Metal Services
Valley Farm Road
Stourton
Leeds
West Yorkshire
LS10 1SD
Tel: 0113 2540711

Atlantic Water Co Ltd
Rosehall Industrial Park
Swailand
Newmarchar
Aberdeenshire
AB21 0UT
Tel: 01651 862005

**Avista Technologies (UK)
Ltd**
13 Nasmyth Square
Livingston
West Lothian
EH54 5GG
Tel: 0131 449 6677

Barnard Ltd
Lower Tower Street
Birmingham
B19 3NL
Tel: 0121 359 5531

Barrier Limited
Pearl Buildings
Stephenson Street
Willington Quay
Wallsend
NE28 6UE
Tel: 0191 262 0510

**BASF Construction
Chemicals (UK) Ltd**
19 Broad Ground Road
Lakeside, Redditch,
Worcestershire, B98 8YP
Tel: 01527 5052

**BASF Performance
Products plc**
PO Box 38
Bradford
West Yorks
BD12 0JZ
Tel: 01274 417000

BioBullets Ltd
2 Fitzhardinge Street
London
W1H 6EE
Tel: 01223 338311

Boode UK Ltd
22-23 Brindley Road
Dodwells Bridge Ind Estate
Hinckley
Leicestershire
LE10 3BY
Tel: 01455 611317

**Bournemouth and West
Hampshire Water Plc**
George Jessel House
Francis Avenue
Bournemouth
BH11 8NB
Tel: 01202 597020

Brenntag UK & Ireland
Fodens Business Centre
Moss Lane
Sandbach
Cheshire
CW11 3AE
Tel: 01270 759759

**British Cement
Association**
Riverside House
4 Meadows Business Park
Station Approach
Blackwater
Camberley
Surrey
GU17 9AB
Tel: 01276 608700

BSR Pipeline Services Ltd
Brenda Road
Hartlepool
S25 2EG
Tel: 01429 527286

BSS Industrial
Fleet House
Lee Circle
Leicester
LE1 3QQ
Tel: 0116 2623232

**Buderus Giesserei Wetzlar
GmbH**
Pipe Casting Division
Sophiestraße 52-54
35576 Wetzlar
Germany
Tel: 0049 64 41 49 15 62

B&V Water treatment
Lampton Drive
Heartlands Business Park
Daventry
Northants NN11 8YH
Tel: 0844 372 7344

**BWA Water Additives UK
Ltd**
2 Brightgate Way
Stretford
Manchester
M32 0TB
Tel: 0161 864 6699

Carus Chemical Company
315 5th Street
Peru IL 61329
USA
Tel: 001 815 223 1500

Celtic Vacuum Ltd

The Salterns
Marsh Road
Tenby
Pembrokeshire
SA70 8EP
Tel: 01834 845511

Centraltubi SPA

Via Foglia 11
61020 Lunano
Italy
Tel: 0039 335441644

Ceratherm Ltd

11 Mill Hey Road
Caldy
Wirral
CH48 1ND
Tel: 0870 121 2880

Charlatte Reservoirs

17 Rue Paul Bert
89400 Migennes
France
Tel: 0033 386 923012

Cleanwells Gbr

Stadtgraben str. 9
D-78628 Rottweil
Germany
Tel: 0049 741 15350

**Clear Solutions
International Ltd**

Unit B3
Wem Industrial Estate
Soulton Road
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Shropshire
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Tel: 01939 235754

**Compressor & Power
Engineers Ltd**

Apollo
Lichfield Road In Est
Tamworth
B79 7TA
Tel: 01827 68710

Conline Coatings B.V.

Adriaan van Heelstraat 19
Postbus 96
3140 ab maassluis
The Netherlands
Tel: 0031 (010) 5931400

**Corroless Corrosion
Control**

Kelvin Way
West Bromwich
West Midlands
B70 7JZ
Tel: 0121 524 2235

**Crossland Tankers
(Burnley) Ltd**

Shuttlework Mead Business
Park
Blackburn Road
Burnley
BB12 7SN
Tel: 01282 775500

CST Industries Ltd

Cotes Park Lane
Cotes Park Industrial Estate
Alfreton, Derbyshire
DE55 4NJ
Tel: 01773 835321

Damstahl Stainless Ltd

Halesfield 4
Telford
Shropshire
TF7 4AP
Tel: 01952 583999

Degremont UK Limited

Water and Waste Treatment
Gainsborough House
Houghton Hall Park,
Houghton Regis
Dunstable, Bedfordshire
LU5 5TD
Tel: 01582 631111

DH Stainless Ltd

Springvale Mill
Waterside Road
Haslingdon, Lancashire
BB4 SE2
Tel: 01706 230066

**Direct Materials Supplies
Enviro Ltd**

22 Thorne Way
Woolsbridge Ind Est
Three Legged Cross
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Dorset
BH21 6FB
Tel: 01202 810600

Dryden Aqua Ltd

Butlerfield
Bonnyrigg
Edinburgh
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Tel: 01875 822222

Duktus

**Duktus Rohrsysteme
Wetzlar GmbH**
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Durapipe UK

Walsall Road
Norton Canes
Cannock
Staffordshire WS11 3PU
Tel: 01543 279909

Dustacco Engineering Ltd

Tower works
Stoneygate Road
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KA16 9AJ
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Dyka B.V.

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Dyka Plastics NV

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EBERO Pipe Systems Ltd
Turnoaks Business Park
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**Egeplast Werner
Strumann GmbH & Co
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D-48268 Greven
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Elastogran GmbH
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Electrosteel Castings Ltd
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European Pipeline Group
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Fileder Filter Systems
St Leonard's Rd
20/20
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ME16 0LS
Tel:01622 621949

Flag S.p.a
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Bergamo
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Flexcrete Technologies Ltd
Tomlinson Road,
Leyland, Lancashire
PR25 2DY
Tel: 0845 260 7005

Flo-dyne Ltd
Flo-dyne place
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Chesham
Bucks HP5 2PT
Tel: 014494 770088

Forbes Technology Ltd
New Road
Crimplesham
Kings Lynn
Norfolk
PE33 9AS
Tel: 01366 389600

Fosroc Ltd
Drayton Manor Business
Park, Coleshill Road,
Tamworth
Staffs, B78 3TL
Tel: 01827 262222

Floran Technologies Inc
801 SW 89th Street
Bldg. B
Oklahoma City
USA, OK 73139
Tel: 001 405 631-1558

FT Pipeline Systems Ltd
6B Eastern Park
Eastern Avenue
Lichfield
Staffordshire
WS13 7SY
Tel: 0121 311 2606

Freeflow Pipesystems Ltd
Autobase Industrial Park
Tipton Road
Tividale
Oldbury
West Midlands, B69 3HE
Tel: 0121 522 3552

Fuchs Rohr GmbH
In Der Steinwiese 31
D-57074 Siegen
Germany

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Smeakley Wood Close
Chesterfield Trading Est
Chesterfield
S41 9PZ
Tel: 01246 260111

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**Gallagher & McKinney
Ltd**
Carrakeel Drive
Maydown Industrial Estate,
Derry
Northern Ireland
BT47 6UQ
Tel: 02871 861069

Genesys International Ltd
Genesys House
204 Lent Rise Road
Burnham
Bucks
SL1 7AB
Tel: 01628 667605

George Fischer Sales Ltd
Paradise Way
Coventry
CV2 2ST
Tel: 024 7653 0450

George Green (Keighley) Ltd
Parkwood Works
Parkwood Street
Keighley
West Yorkshire
BD21 4PN
Tel: 01535 603728

GE Power & Water, Water and Process Technologies
Deutschland GmbH
Daniel-Goldbach Str 17-19
40880 Ratingen
Germany
Tel: 0049 2102 108 375

GPS
Walsall Road
Norton Canes
Cannock
Staffordshire
WS11 9NS
Tel: 01543 279909

Goldcrest Chemicals Ltd
Dodworth Business Park
Great Cliffe Road
Dodworth
Barnsley
South Yorkshire
S75 3SP
Tel: 01226 720100

Grundfos Water Treatment
Reetzstrasse 85
D76327 Pfinztal
Germany
Tel: 0049 7240 610

Homer Burgess Ltd
Burgess House
Garroch Business Park
Dumfries
DG2 8PN
Tel: 01387 261027

Hydranautics BV
PO Box 4006
Pangbourne
RG8 7WB
Tel: 0118 984 3106

Hydro International
Kiln Lane
Prickwillow Road
Ely
Cambridgeshire
CB7 4TX
Tel: 01 353 645 700

Hylam Ltd
1 Regal Lane, Soham
Ely, Cambs
CB7 5BA
Tel: 01353 720989

Industrial Chemicals Ltd
Hogg Lane
Grays, Essex
RM17 5DU
Tel: 01375 389000

Iniziative Industriali SpA (Sarplast)
Via Roginanina 14
Localita Macchiaverde
56040 Santa Luce (Pisa)
ITALY
Tel: 0039 050 691 745

International Paint Ltd
Stoneygate Lane
Felling
Gateshead
Tyne & Wear NE10 0JY
Tel: 0191 401 2487

Ionex SG Ltd
Unit 25
Nailsworth Mills Estate
Nailsworth
Gloucestershire
GL6 0BS
Tel: 01453 836621

IQL Ltd
Stirling Road
Cressex Business Park,
High Wycombe
Bucks HP12 3ST
Tel: 01494 463636

Irathanefutura A Division of ITW Ltd
Unit 3 Sipton Way
Express Business Park
Northampton Road
Rushden
Northamptonshire
NN10 6GL
Tel: 0870 458 7336

ITT Lowara UK Ltd
Millway Rise Industrial Estate
Axminster
Devon EX13 5HU
Tel: 01297 630200

JFC Manufacturing (Europe) Ltd
Maes Y Clawydd Industrial Estate
Maesbury Road
Oswestry
Shropshire SY10 8NN
Tel: 01403 892502

Jindal Saw Ltd
Jindal Centre
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New Delhi -110 006
Tel: +91 11 4146 2216

J.K Fabrications Limited
Unit 5
Carnbane Business Park
Newry
Co.Down,
BT35 6QH
Tel: 028 3025 2142

Johnson Filtration System
Zone Industrielle
Availles-en-Châtellerault
86530 France
Tel (F): 0033 549 021600
Tel (UK): 07979 691415

Kalsep UK Ltd
2F Albany Park
Frimley Road
Camberley
Surrey
GU16 7PL
Tel: 01276 675675

Kemira Chemicals b.v
Kemira Water Solutions BV
Botlekweg 175
3197 KA Botlek Rotterdam
The Netherlands
Tel: 0031 181 295 800

Kingspan Environmental Containers
Seapatrick Road
Banbridge
Co. Down
BT32 4PH
Tel: 028 4062 6260

Koch Membrane Systems
Units 3-6
First Floor
Greyfriars Business Park
Frank Foley Way
Stafford
ST16 2ST
Tel: 01785 272500

KWH Pipe (UK) Ltd
Reg. Office
Brunleys
Kiln Farm
Milton Keynes
MK11 3EW
Tel: 01908 262426

Leighs Paints
Tower Works
Kestor Street
Bolton
BL2 2AL
Tel: 01204 521771

L.E.S Engineering Ltd
Armstrong St
West Marsh Ind Est
Grimsby
North East Lincs
DN31 1XD
Tel: 01472 353516

Leyfos Plastics Limited
Rosehill Industrial Estate
Tern Hill
Nr Market Drayton
Shropshire
TF9 2JU
Tel: 01630 638557

Line-X Protective coatings
1862 Sparkman Dr NW
Huntsville
Alabama

Medentech
Clonard Rd
Wexford
Ireland
Tel: 00353 53 911 7900

Midas Technologies (GB) Ltd
Unit A Roundhouse Close
Eastern Industry
Petersborough
PE1 5TA
Tel: 01733 342600

MMP Fabrications Ltd
Highfield Works
Highfield Industrial Estate
West End Street
Oldham, OL9 6AJ
Tel: 0161 624 3303

MorganEST
MorganEst House
Corporation St
Rugby
Warwickshire
CB21 2DW
Tel: 01788 534665

Nalco Europe B.V.
PO Box 11
Winnington Avenue
Northwich
Cheshire
CW8 4DX
Tel: 01606 721629

National Cement Distribution Ltd
15 Fountain Parade,
Mapplewell
Barnsley
South Yorkshire
S75 6FW
Tel: 01226 381133

National Oilwell Varco
Priorparken 480,
DK-2605 Broendby,
Denmark
Tel: 0045 4348 3000

Nijhuis Water Technology B.V.
Anholteseweg 32
Dinxperlo
The Netherlands
7091 HB
Tel: 0031 315 655 494

Noksel Steel Pipe Co Inc
Çetin Emeç Bulvari 2. CAD
No:10
Överçler/Ankara – Turkey
06450
Tel: 0090 312 472 59 59

Northpoint Ltd
Globe Lane
Dukinfield
Cheshire SK16 4UY
Tel: 0161 330 4551

OAO Lipetsk Iron Works
Zavodskaya Sq.1
Lipetsk
Russia 398007

Orica Australia Pty Ltd
1 Nicholson Street
Melbourne
Victoria 3000
Australia

Ormiston Wire Ltd
1 Fleming Way
Worton Road
Isleworth
Middlesex TW7 6EU
Tel: 020 8569 7287

Ormac Coatings Limited
Thorncliffe Park Estate
Chapelton
Sheffield
S35 2PH
**Tel: 0114 246 1237/245
4211**

Outokumpu Stainless Ltd
PO Box 161
Shepcote Lane
Sheffield Lane
Sheffield
S9 1TR
Tel: 0114 261 4217

Pall Europe Ltd
Harbourgate Business Park
Southampton Rd
Portsmouth
PO6 4BQ
Tel: 02392 338000

Panton McLeod Ltd
Waverley Place
Newtown St Boswells
Melrose
TD6 0RS
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8560 AB Balk
The Netherlands
Tel: 0031 514 608500

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Anlagenbau GmbH**
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**Pentair Water India Pvt
Ltd**
L-52-55 Verna Industrial
Estate
Verna
Salcette
Goa-403722
India
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Permastore Ltd
EYE
Suffolk
IP23 7HS
Tel: 01379 870723

Pipelife Norge AS
Postboks 74
Skherkoya
N-3995 Stathelle
Norway

**Pipeline Protection
Services Ltd**
Connor House
Pilgrims Way
Bede Industrial Estate
Jarrow
Tyne & Wear
NE32 3EW
Tel: 0191 428 4003

**Pipeline Protection
Services Ltd**
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Pilgrims Way
Bede Industrial Estate
Jarrow Tyne & Wear
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Technologies LLC**
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PO Box 44
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Knottingley
WF11 0DN

Plastic Coatings Ltd
Southern Division
Woodbridge Meadows
Guilford, Surrey
DU1 1BG

**Polypipe Building
Products**
Broomhouse Lane
Edlington
Doncaster
DN12 1ES
Tel: 01709 770000

Polypipe Ulster
Dromore Rd
Lurgan
Craigavon
BT66 7HL
Tel: 028 38 881270

**Portobello Fabrications
Ltd**
3 Longacre Close
Holbrook
Sheffield
S20 3FR
Tel: 0870 4284406

**Powerrun Project
Management Ltd**
Prospect Works
South Street
Keighley
West Yorkshire
Tel: 01535 667614

Premcrete
Seymour House
Mayflower Close
Chandlers Ford Ind Est
Eastleigh
Hampshire
SO53 4AR
Tel: 0800 6191 619

**Pridesa Proyectos e
Instalaciones de
Desalación S.A.**
C/ Ramon Rubial n° 2
48950 Erandio
Vizcaya
Spain
Tel: 0034 94 605 0700

**Process Plant Network
Ltd**
Knowsley Business Park
Knowsley
Merseyside
L34 9HX
Tel : 0151 549 2322

**Professional Water
Technologies Inc**
1048 La Mirada Court
Vista CA
USA
92056
Tel: 001 760 639 4400

Purac Limited
Purac House
Birmingham Road
Kiddeminster
Worcestershire
DY10 2SH
Tel: 01562 820010

Purolite International Ltd
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Llantrisant Business Park
Llantrisant
South Wales
CF72 8LF
Tel: 01443 229 334

Quality Plastics Ltd
PO Box 29
White's Cross
Cork
Ireland
Tel: 00353 21 4884700

**Quantum Engineering
Developments Ltd**
Quantum House
West Court
Saxon Park
Stoke Prior
Bromsgrove
Worcs. B60 4AD
Tel: 01527 577888

Radius Systems Ltd
Hilcote Plant
P.O. Box 1
Blackwell, Nr Alfreton
Derbyshire
DE55 5JD
Tel: 01773 811112

Rapak
Butlers Leap
Clifton Road
Rugby
Warwickshire
CV21 3RQ
Tel: 01788 570612

Rolled Alloys
Unit 16,
Walker Ind Park
Guide, Blackburn
BB2 1QE
Tel: 01254 503881

R Spang GmbH
Schafmatt 5
D-79618
Rheinfelden
Germany

ROAM chemie NV
Industrieterrein Centrum
Zuid 2053
3530 Houthallen
Belgium
Tel: 0032 11 60 2978

Rohm and Haas Ltd
Herald way
Coventry
CV3 2RQ
Tel: 02476 653 760

**Ross-shire Engineering
Ltd**
Muir of Ord Industrial Est
Muir of Ord
Ross-Shire
Scotland
IV6 7UA
Tel: 01463 870049

**Saint-Gobain PAM UK
Ltd**
Lows Lane
Stanton-By-Dale
Ilkeston
Derbyshire, DE7 4QU
Tel: 0115 930 5000

Samuel Cooke & Co Ltd
The Oil Terminal
Wyre Street
Padiham, Burnley
BB12 8DF
Tel: 01282 777797

**Sandvik Materials
Technology UK**
Manor Way
Halesowen
West Midlands
B62 8QZ
Tel: 0121 504 5111

Sayers Road tankers Ltd
Tutin Road
Leeming Bar Ind Estate
Leeming Bar
Northallerton
North Yorkshire
DL7 9UJ
Tel: 01677 427666

Scotmas Ltd
Splyaw Road
Kelso
The Scottish Borders
TD5 8DN
Tel: 01573 226901

Scottish Water Solutions
Torridon House
Beechwood Business Park
Inverness
IV2 3BV
Tel: 01463 228 102

Sensor (UK) Ltd
101 Clifton Drive
Lytham
Lancashire
FY8 1BY
Tel: 0161 850 0926

Sertubi Spa
Via K.L. Von Bruck 32
34143 Trieste
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Tel: 0039 040 31 73 111

Severn Trent Services Ltd
Arley Drive
Birch Coppice Business
Park
Dordon
Tamworth
B78 1SA
Tel: 01827 266000

Siemens plc
Outram's Wharf
Alfreton Road
Little Eaton
Derbyshire
DE21 5EL
Tel: 01332 387300

Sika Ltd
Watchmead
Welwyn Garden City
Herts., AL7 1BQ
Tel: 01707 329241

**Silotank (Digestors, Silos
& Tanks) Ltd**
Pembroke Loop Road
Springbank Industrial Estate
Poleglass, Dunmurry
Belfast
BT17 0QL
Tel: 02890 626256

Simona UK Ltd
Telford Drive
Brookmead Industrial Park
Stafford
ST16 3ST
Tel: 01785 222444

Sitemech Utilities Ltd
Porrit St
Bury
Lancs
BL9 6HJ
Tel: 0161 7643901

Snap-Tite Europe. B.V.
Industrial Estate
Whitemill
Wexford
Republic of Ireland
Tel: 00353 53914 1566

Stainless Metric Stock Ltd
PO Box 17
Bull Hill Works
Bolton Road
Darwen
Lancashire, BB3 2TT
Tel: 01254 775133

**Staptina Engineering
Services Ltd**
Pennine Works
Grantham Road
Boothtown, Halifax
W. Yorkshire, HX3 6PL
Tel: 01422 350357

STS Tubular Group
Gasteizbide s/n
Alegria- Dulantzi
01240 (Álava) Spain
Tel: 0034 945 420050

**Stuwa-Konrad
Stukerjurgan GmbH**
Hemmersweg 80
D-33397 Rietberg
Germany
Tel: 0049 5244 4070

**Subterra – part of
RadiusPlus Ltd**
Unit 6-8 Middle Rd
Bailie Gate Industrial Estate
Sturminster Marshall
Dorset
BH21 4DB
Tel: 01258 857556

**Superior Pipeline
Products Ltd**
College Lands
Rathcoole
Co Dublin
Ireland
Tel: 00353 1401 1728

**Swissteril International
5755 Ltd**
5 HaChita Street
Post Office Box 10079
Haifa Bay 26110
Israel
Tel: 00972 4 8410114/5/6

Tevan B.V.
4200 AA Gorinchem
The Netherlands
Tel: 0031 183 621799

Trailer Engineering Ltd
Central Avenue
Congreaves Trading Estate
Cradley Heath
West Midlands
B64 7BY England
Tel: 01384 564765

Uponor Ltd
Bishopstown
Cork
Ireland
Tel: 00353 (0) 21 4541834

**USFilter-Memcor,
Microfloc and General
Filter Products**
600 Arrasmith Trail
Ames, Iowa
USA
50010-9760
Tel: 001 515-268-8500

UTS Engineering Ltd

Connor House
Pilgrims Way
Bede Industrial Estate
Jarrow, Tyne & Wear
NE32 3EW
Tel: 0191 428 4003

Vandex International Ltd

Rottristrasse 6,
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Solothurn
Switzerland
Tel: 0041 32 626 36 36

Varis Engineering Ltd

10-12 West Road
Greshop Industrial Estate
Forres
Moray
IV36 2GW
Tel: 01309 671211

Veolia Water Systems Ltd

Aqua House
2620 King's Court
Birmingham Business Park
Birmingham
B37 7YE
Tel: 0121 329 4000

W7TER Ltd

G20 Ashmount Business
Park
Swansea
SA6 8QR
Tel: 01792 775551

Ward Recycling Ltd

Puddlers Road
South Tees Industrial Park
South Bank
Middlesborough
TS6 6TX
Tel: 01642 458666

Waterman Environmental Services Ltd

Unit 36
Minworth Industrial Park
Forge Lane
Minworth
Sutton Coldfield
West Midlands
B76 1AH
Tel: 0121 352 3700

Water-Line Solutions Ltd

Lilford Lodge Farm
Barnwell near Oundle
Northants
PE8 5SA
Tel: 01832 272725

Water Process Ltd

Unit 11 Victory Park
Solent Way
Whiteley
Fareham
PO15 7FN
Tel: 01256 303800

Water Treatment Products Limited

Gilchrist Thomas Industrial
Estate
Blaenavon
Pontypool
NP4 9RL
Tel: 01495792090

Wavin Ireland Ltd

Balbriggan
Co. Dublin
Ireland
Tel: 00353 1 841 5000

Wavin Plastics Ltd

Meadowfield Industrial
Estate
Meadowfield
Brandon
Durham
DH7 8RJ
Tel: 0191 378 0841

Western

Western House
Broad Lane
Yate, Bristol,
BS37 7LB
Tel: 01454 227277

Whale Tankers Ltd

Ravenshaw
Solihull
West Midlands B91 2SU

Wolseley UK Ltd

The Wolseley Centre
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X-FLOW B.V.

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