



CONSUMABLES





INTRODUCTION

BSS offers a wide range of products from leading manufacturers, but our own-brand BOSS™ has been established as a premier alternative for more than a century.

Since the early 1900s, the BOSS™ brand has been able to demonstrate a reputation for quality, value and reliability. BOSS™ products are competitively priced but don't compromise on quality. At BSS, we are constantly updating and developing the BOSS™ range of consumables to ensure it meets the needs of today's customer. The name BOSS™ has become synonymous with iconic products such as BOSS™ White Pipe Jointing Compound but the range encompasses most areas of H&V products including valves, heating and pipe fittings.

This brochure gives an overview of the various types of consumable products available in the BOSS™ ranges.

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JOINTING COMPOUNDS

APPLICATION GUIDE

Jointing Compounds - Introduction

Our pipework systems jointing compounds and PTFE tapes are used for sealing screwed joints from the ingress or egress of fluids or gases. Jointing compounds are manufactured from various substances which mixed together produce a paste-like material of different viscosities and properties. They are primarily used on steel pipework systems. PTFE tapes are made from almost pure PTFE material and are suitable for a wide range of pipework systems including thermoplastics like; ABS or PVCU, Copper, Brass and Stainless Steel etc.

How Jointing Compounds Are Applied

Prior to applying the jointing compound it is most important that both male and female threads are clean i.e. all traces of cutting fluid, rust, paint, grease and any other contaminant is removed before applying fresh material.

Under normal pipe fitting practice, jointing compound is applied to the male thread and is usually reinforced with a small quantity of hemp - this is not the case on natural gas duties where only compound (or Permanite GT PTFE Tape) is allowed on pipe sizes smaller than 2" (British Gas Spec. IM/16 and BS6891). Any excess compound which extrudes around the joint, when it has been assembled, should be wiped clean.



Refer to the Application Guide where you see this symbol

	BOSS™ White	BOSS™ Universal	BOSS™ White Universal	BOSS™ Supergreen	BOSS™ Gastite
Max Temp	284 °C	120 °C	200 °C	200 °C	150 °C
Acetone					
Aeroshell 750 (70 °C)					
Alcohol		✓	✓		
Alipatic Solvents					
Ammonia (to 20 °C)		✓	✓		
Brine	✓	✓	✓	✓	✓
Butane					
Carbon Dioxide	✓	✓	✓	✓	✓
Compressed Air	✓	✓	✓	✓	✓
Concentrated Hydrochloric Acid (to 20 °C)					
Diesel Fuel (70 °C)			✓		✓
Dilute Alkalis					
Engine Oil (70 °C)		✓	✓		✓
Ethyl Acetate			✓		
Fuel Oil			✓		
Genklene (to 20 °C)					
Heating Fuel					
Helium		✓			
Hydraulic Oil					
Hydrogen Peroxide					✓
Industrial Meth		✓	✓		
Industrial Meths (20 °C)					
ISO Propyl Acetate			✓		
ISO Propyl Alcohol			✓		
Kerosene					
Low Pressure Saturated Steam					
Lower Alkyl Esters			✓		✓
LPG Low Pressure		✓	✓		
Methanol			✓		
Methylated Spirits					
Motor Oil					
N.Propanol					
Natural Gas	✓	✓	✓	✓	✓
Nitrogen	✓	✓	✓	✓	✓
Paraffin		✓			
Petrol		✓			
Propane					
Refrigerants		✓			
Solvents - Hydrocarbon					
Steam (to 10 bar)	✓	✓	✓	✓	✓
Steam (to 100 bar)					
Steam (to 50 bar)					
Tivela A					✓
Toluene (to 20 °C)					
Town Gas	✓	✓	✓	✓	✓
Vegetable (Castor) Oil (to 70 °C)					
Water - general hot and cold	✓	✓	✓	✓	✓
Water - potable hot and cold		✓	(Cold Only)	✓	
Water - Sea (to 20 °C)	✓	✓	✓	✓	✓
Water/Glycol (to 70 °C)		✓	✓	✓	✓
White Spirit (to 20 °C)		✓			✓
20% Aqueous Sodium Hydroxide (to 20 °C)					
50% Posphoric Acid (to 20 °C)					
50% Sulphuric Acid (to 20 °C)					
Oxygen Hydrogen Downanol PM (Glyco Ethyl)	Very hazardous - refer to British Oxygen Co. (BOC)				
Fluorine Dioxide Chlorine Trifluoride MEK Hydrofluoric Acid Sodium Potassium	Very specialised areas. BOSS cannot offer any jointing compounds for these mediums. Jointing normally needs welding				

Jointing Compounds

BOSS™ White

BOSS™ White is suitable for flanged or screw threaded joints and is used mainly in the plumbing and gas fitting industries. Hemp may be used as reinforcement. This must be fully wetted with compound prior to assembly of the joint.

Main Areas of Usage:

- General Industry
- Heating and Ventilating
- Plumbing

Temperature:	-10 °C to +284 °C
Pressure:	20 bar water
Specification:	BS 6956: Part 5
Colour:	Buff
Time before Assembly:	Immediate
Time before Testing:	Immediate

Product Code:	Size:
84410508	400g Tub

IMPORTANT:

Hemp must not be used on threads below 2".
Not to be used on domestic gas installations.



BOSS™ Universal

WRAS registered as suitable for cold potable water applications.
Suitable for use in gas installation work as defined by BS EN 751-2:1997.

PTFE tape can be used first on the male thread if a clearance or damaged thread problem is encountered. BOSS™ Universal can then be used to prevent weepage. BOSS™ Universal is suitable for use on taper threaded connections made from mild or stainless steel, malleable iron, brass, bronze, copper, other metals, fibreglass and PVC. Not suitable for ABS or CPVC connections.

Main Areas of Usage:

- All Industries
- Heating and Ventilating
- Plumbing
- Hospitals
- Government and Local Authorities

Temperature:	-18 °C to 260 °C
Pressure:	10,000psi / 68 bar (liquids) 2,000psi / 137 bar (liquids)
Specification:	BS EN 751-2:1997
Colour:	Off White
Time before Assembly:	Immediate
Time before Testing:	Immediate

Product Code:	Size:
84410519	500g Tub

IMPORTANT:

Do not use Hemp with this product. It is not required for an effective seal and is illegal on potable water systems.



Jointing Compounds

BOSS™ White Universal

WRAS approved to BS6596.5. BOSS™ White Jointing Compound is suitable for hot and cold potable water applications and for use in gas installation work as defined by BS EN 751-2: 1997.

Main Areas of Usage:

- General Industry
- Heating and Ventilating
- Plumbing

Temperature:	-20 °C to 200 °C
Pressure:	7 bar water
Specification:	BS EN 751-2: 1997 BS 6956: Part 5: 1992
Colour:	White
Time before Assembly:	Immediate
Time before Testing:	Immediate

Product Code:	Size:
84410711	400g Tub



BOSS™ Supergreen

WRAS approved to BS6596.5. BOSS™ Supergreen is a non-toxic compound for sealing threaded joints. Suitable for hot and cold water and low pressure steam up to 10 bar.

On pipe sizes 1/2" and above, reinforced fibre may be used as a support if necessary.

Main Areas of Usage:

- All Industries
- Heating and Ventilating
- Plumbing
- Hospitals
- Government and Local Authorities

Temperature:	Up to 200 °C
Pressure:	Water 20 bar, Steam 10 bar, Gas, Comp Air, Mineral Oil 14 bar
Specification:	BS 6956: Part 5:1992
Colour:	Pale Green
Time before Assembly:	Immediate
Time before Testing:	Immediate

Product Code:	Size:
84510094	400g Tub



IMPORTANT:

Hemp must not be used on potable water applications.

Jointing Compounds

BOSS™ Gastite

BOSS™ Gastite was formulated specifically for the former regional Gas Boards to be used for all standard jointing applications.

BS6891:1998 prohibits the use of any hemp on low pressure gas pipework in domestic premises except in conjunction with a 'thread sealing compound' for long screw backnut seals. British Gas spec IM/16 'recognises' that in addition to a jointing paste, the use of hemp may be necessary to produce a sound joint with screwed joints of 2" and above. All threads must be free of oil/grease prior to applying the compound.

Hemp is recommended as reinforcement on 2" thread and over.

Main Areas of Usage:

- All Industries

Temperature:	-40 °C to 150 °C
Pressure:	Up to 7 bar gas
Specification:	Meets BS 6956: Part 5:1992 Conforms to EN 751
Colour:	Off White
Time before Assembly:	Immediate
Time before Testing:	Immediate

Product Code:	Size:
84612608	400g Tub



See
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Guide
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Jointing Compound Sundries

BOSS™ Hemp

BOSS™ Hemp is manufactured from quality flax seed and is used as reinforcement to jointing compound on threaded pipe joints.

- Hemp must NOT be used on POTABLE WATER applications
- Hemp must NOT be used on GAS PIPEWORK below 2" in size

Product Code:	Size:
88046420	80g Spool c/w Plastic Dispenser
84010006	500g Hank



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IMPORTANT:

Hemp must not be used on potable water applications.

BOSS™ PTFE and Permanite GT PTFE Tapes

Both BOSS™ PTFE and Permanite GT PTFE tapes eliminate the issue of drying time, and joints are easily dismantled and cleaned for re-assembly. Working pressures are dependent on quality and size of threads, service temperature and number of wraps.

How PTFE Tapes Are Applied

Tape should be applied to the male thread in the direction it runs i.e. starting away from the open end of the pipe and working towards the open end (with a 50% overlap). A slight tension should be kept on the tape as it is applied.

BOSS™ PTFE Tape

Suitable For Use With:

- Water - Potable hot and cold
- Oxygen
- Usually on applications of small pipe threads
- Thermoplastic Components e.g. ABS, UPVC etc.

Main Areas of Usage:

- All Industries

Temperature:	-20°C to 200°C
Pressure:	Up to 30 bar
Specification:	BS 7786: 1995 Grade L Water Byelaws Scheme approved product

Product Code:	Size:
79024607	1/2" (12m Spool)
79024629	1" (12m Spool)



BOSS™ Permanite GT PTFE Tape

Suitable For Use With:

- Natural Gas, Town Gas
- Butane/Propane
- Oxygen
- Water - Potable hot and cold
- LPG up to 2" Threads
- Low Pressure Steam
- Various Chemicals, Acids and Solvents
- BS 3799/BS EN 10226-1:2004 Fittings
- Compressed Air
- Diesel Oil

Main Areas of Usage:

- All Industries

Temperature:	-20°C to 200°C
Pressure:	Up to 80 bar
Specification:	BS 6974: 1991, BS EN 751 BS 7786: 1995 Grade L BS 5292: 1980 Type C, BS 6956 British Gas IM/16 Water Byelaws Scheme approved product

Product Code:	Size:
79024662	1/2" (5m Spool)



Jointing and Anti-Corrosion Tapes

BOSS™ Anti-Corrosion Tape

BOSS™ Anti-Corrosion Tape is a self adhesive petrolatum tape used for corrosion protection, sealing and water proofing of metal above and below ground.

Stable in composition and plasticity over a wide temperature range. Non-hardening and non-cracking. Accommodates vibration and extreme movement of substrate. Superficial oxidation renders surface less tacky. High resistance to mineral acids, alkalis and salts.



Temperature: -5°C to 45°C (for application)
55°C (for service)

Product Code:	Size:
84635006	50mm x 10m Roll
84635017	75mm x 10m Roll
84635028	100mm x 10m Roll

Aluminium Tape 30 Micron

Soft aluminium foil tape coated with a UV resistant acrylic adhesive. A siliconised paper liner is on one side to aid application.

Commonly used in the HVAC industry for duct sealing, automotive industry for covering access holes and general building and construction uses.

- High performance foil tape for jointing insulation boards and lagging
- Waterproof and conformable certified to Class 'O' standard

Main Areas of Usage:

- All Industries



Specification: Meets Class 'I' and Class 'O' fire rating

Product Code:	Size:
84650491	50mm x 45m
84650510	75mm x 45m
84650521	100mm x 45m

Solder

BOSS™ Lead Free Solder Wire

Recent legislation has resulted in a ban on the use of lead-containing solders in both new and repaired potable water systems. Major manufacturers of integral ring fittings have marking systems for lead free solder fittings e.g. Yorkshire YP. In the case of end feed fittings it is the responsibility of the specifier/installer to ensure that lead-free tin/copper or tin/silver solders are used on potable water installations.



Temperature:	Melting point 227-228°C
Materials:	99% Tin, 1% Copper
Specification:	Water Byelaw Scheme Listed

Product Code:	Size:
86032022	1/2kg Reel

BOSS™ Leaded Solder Wire

Tin-lead solders are widely used for soft soldering.

BOSS™ leaded solder wire needs a low soldering temperature which makes it ideal for rapid soldering (e.g. electronics industry).



Temperature:	Melting point 183-234°C
Materials:	71% Lead, 29% Tin

Product Code:	Size:
86032000	1/2kg Reel

Wire Wool and Abrasive Strips

BOSS™ Medium Grade Steel Wool

Used for the general cleaning and preparation of pipe and fittings prior to installation or painting.



Product Code:	Size:
84650351	450g Pack

BOSS™ Cleanfit Abrasive Strip

An open mesh, silicone carbide, abrasive strip ideal for preparing joints before soldering or brazing. Also useful for deburring metal, plastic or wooden surfaces, stripping paint or oxides from rounded materials or 'roughing-up' before bonding. To clean inside fittings, the abrasive can be cut into smaller strips and rolled.

The medium grade grit abrasive is both water-proof and washable and can be used on both sides. The 5 metre roll has a width of 38mm and the mini-strips are 38mm x 250mm.



Product Code:	Size:
84650200	Pack of 10
84650307	5m Roll

BOSS™ Cleantex Mini-Pads

Available in both Medium Grade (Maroon) and General Purpose (Green), the BOSS™ Cleantex Mini-Pads are a metal free alternative to steel wool.

Ideal for cleaning, polishing, rust removal, scrubbing and blending, the mini-pads are washable and rust free. They will not break apart or splinter.



Product Code:	Size:
84650211	Pack of 5 (Medium Grade)
84650222	Pack of 5 (General Purpose)

BOSS™ Wire Brush

A heavy duty 4 row brush useful for metalwork preparation and hand removal of rust.



Product Code:
84652108

Cutting Oils

BOSS™ Non-Soluble Cutting Oil

Non-soluble cutting oil is primarily intended for use with hand or power driven tools for cutting and screwing steel tubes. It dissipates heat rapidly, thereby cooling both tools and work without affecting the material.



Product Code:	Size:
84630007	5 Litre Bottle

BOSS™ Soluble Cutting Oil

The purpose of the antiseptic and anti-rusting BOSS™ soluble cutting oil (when suitably diluted with water), is to provide a lubricating coolant for the cutting tool. Without this fluid, the excessive heat would destroy the cutting edge.

Operation	Cutting Oil	Water
Automatic	1 part add	10-15 parts
Pipe Threads	1 part add	8-20 parts
Lathes	1 part add	15-20 parts
Drilling	1 part add	30-40 parts
Hydraulic	1 part add	50-80 parts
Grinding	1 part add	50-80 parts

The resulting mixture will be a milky-white emulsion which should remain stable for some time if left standing. If a small amount of separation occurs, the mixture should be stirred before use.

Product Code:	Size:
84630073	5 Litre Bottle



IMPORTANT:
It is necessary to mix BOSS™ soluble cutting oil with pure clean tap water before use. Water should ALWAYS be added to the oil and not vice versa.

Sealants and Solvents

BOSS™ Silicone Sealant

A general purpose silicone sealant suitable for all sealing and jointing applications both inside and outside (including sanitary applications, glassworks and window panes). The cured sealant has excellent anti-fungal properties making it suitable for sanitary rooms. It will give permanent and perfect sealed joints.

An application temperature of 0-40°C is recommended and the surfaces must be clean, dry and free of dust. On porous surfaces and plastics the use of primer may be required. Skinning and curing time depends on temperature, humidity and thickness of sealant applied.

Product Code:	Size:	Colour:
88013610	310ml Tube	White
88013621	310ml Tube	Clear

CAUTION: During the application and curing process small amounts of acetic acid are released, therefore, rooms must be sufficiently ventilated.



BOSS™ Eco-Cleaner

BOSS™ Eco-Cleaner is a low odour cleaner for PVCU, PVCC and ABS pipe systems. It will remove dirt and grease from jointing surfaces, providing optimum bonding results in combination with solvent cement. Always use fresh absorbent paper when cleaning surfaces and allow them to dry prior to solvent cement application.

This product is free of chlorinated solvents so is 'friendlier' to user and environment.

Product Code:	Size:
79022710	1/2 Litre Tin



BOSS™ PVCU NON Pressure Solvent Cement

This product is a 'fast gel' suitable for gap-filling and jointing non-pressure and drainage PVCU applications. It is advisable not to load or stress the joint for the first 10 minutes. It is not recommended to use this solvent cement when temperatures are below 5°C.

The dried joint is resistant to a temperature of 60°C and is waterproof. If joined correctly, it can be stated that the dry solvent cement joint has the same characteristics as the PVC material itself.

Specification:	Kitemarked
Product Code:	Size:
72117950	250ml Bottle



Sealants and Solvents

BOSS™ PVCU Pressure Solvent Cement

This product is a gap-filling PVCU solvent cement for jointing pipes and fittings in pressure and drainage systems. It is not recommended to use this solvent cement when temperatures are below -5°C. It is advisable not to load or stress the joint for the first 10 minutes. When conducting pressure tests, a drying time of 1 hour for 1 bar pressure must be observed (above 10°C). Further details below.

Setting Times			
Pipe Size	Temperature	10 bar	16 bar
3/8" - 2"	>10°C	2 hours	4 hours
	5 - 10°C	4 hours	8 hours
2.5" - 4"	>10°C	4 hours	8 hours
	5 - 10°C	8 hours	16 hours
5" - 12"	>10°C	8 hours	16 hours
	5 - 10°C	16 hours	32 hours

The dried joint is resistant to a temperature of 60°C and is waterproof. If joined correctly, it can be stated that the dry solvent cement joint has the same characteristics as the PVC material itself.

Specification: Kitemarked
WRAS approved product
(cold potable water)

Product Code:	Size:
79088020	500ml Tin



BOSS™ ABS Pressure Solvent Cement

This product is a medium-bodied solvent cement for joining ABS plastics and is suitable for pressure systems including compressed air, cooling and industrial plants. This solvent cement should not be used at temperatures below 0°C.

The joint must be assembled quickly whilst the cement is wet. After assembly the components can still be adjusted for approx 10 seconds before continuing to work, the joint should be held in place for around 5 seconds.

When conducting pressure tests the following curing times should be observed:

Pipe Diameter	Up to 63mm		75mm to 160mm		200mm to 315mm	
Surroundings Temp	To 5 bar	To 10 bar	To 5 bar	To 10 bar	To 5 bar	To 10 bar
>15°C	2 hours	4 hours	3 hours	6 hours	4 hours	8 hours
5°C - 15°C	4 hours	8 hours	6 hours	12 hours	8 hours	16 hours
-5°C - +5°C	6 hours	12 hours	9 hours	18 hours	12 hours	24 hours

The dried joint has the same resistance to heat, water acids and alkalines as ABS. In general if joined correctly, it can be stated that the dry solvent cement joint has the same characteristics as the ABS material itself.

Product Code:	Size:
79088075	800ml Tin



Tip...

Applying Solvent Cements

When preparing the pipe for a solvent joint, the depth the pipe will enter into the appropriate fitting must be marked with a soft pencil. This line can be used as a guide to prepare the pipe (chamfering, deburring and cleaning). Once complete and dry the solvent cement can be applied evenly with a brush to the prepared surface and to the inside of the fitting. Immediately the pipe and fitting should be pushed together (without twisting) and held in place for a moment. Any surplus cement must be removed.

Paint

BOSS™ Red Oxide Primer

BOSS™ Red Oxide Primer contains corrosion inhibiting zinc chrome and is suitable for general use on steelwork as a protective coating. At 20°C the primer will be 'surface dry' within 1 - 1 1/2 hours and 'hard dry' within 3-4 hours - it will dry to a matt finish.

Product Code:	Size:
06768008	2.5 Litre Tin
06768019	5 Litre Tin



BOSS™ Gas Paint

BOSS™ Gas Paint is a top quality superfine gloss product for general purpose 'decorative' and protective painting. It is suitable for both exterior and interior use on iron and steel, non-ferrous metals, cement, concrete etc. Surfaces should be prepared in normal manner and primed with appropriate primer. It is heat resistant up to 120°C. If subjected to temperatures in excess of 80-90°C for long periods the colour may change slightly.

The paint will be 'dust free' within 4-6 hours and 'hard dry' within 12 hours. It should be re-coatable within 24 hours.

Specification:	BS 4800 colour card 08C35 (Caramel)
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Product Code:	Size:
06768052	2.5 Litre Tin



BOSS™ White Spirit

BOSS™ White Spirit is a complex mixture of petroleum hydrocarbons, usually used as a paint solvent and for cleaning paint brushes.

Product Code:	Size:
06768030	2 Litre Bottle



Aerosols

BOSS™ Gas Leak Detector Spray

BOSS™ Gas Leak Detector Spray is a micro-porous form that will show the smallest gas leaks as bubbles. Spray as upright as possible over joints/connections. It uses a non-flammable CO² propellant that does not react with other gases.



Product Code:	Size:
84636019	400ml Aerosol Can

BOSS™ Spray Lubricant

A multi-purpose lubricant, penetrant and anti-rust product which does not contain silicone. It has the ability to displace moisture from metal and plastic surfaces, and penetrate and free seized nuts, bolts etc. without mess. It also gives excellent corrosion protection to metal parts and is electrically non-conductive.



Product Code:	Size:
84636115	500ml Aerosol Can

BOSS™ Cutting, Threading and Tapping Fluid

A general purpose light coloured 'extreme pressure' cutting oil. The additives have been chosen to meet the widest possible range of cutting oil requirements. It is recommended for high tensile, stainless steel and heat resisting metal. Safe on steels, designed for stainless steel and ceramics.



Product Code:	Size:
84636030	500ml Aerosol Can
84636104	500ml Poly Bottle

BOSS™ Red Oxide Primer

- Durable and tough primer paint
- Protects painted metal surfaces from rust
- Penetrates rusted surfaces
- Fast Drying
- Use on bare metal or slightly rusted metal surfaces
- Easy to overcoat
- Large industrial size



Product Code:	Size:
84636085	500ml Aerosol Can

Aerosols and Brushes

BOSS™ Galvanise Paint Spray

This product is a fast drying, zinc rich primer paint. It is effective in stopping rust on all surfaces and can be applied over light rust or bare metal. Several light coats give the best protection. The product can be used as a primer for the following top coats: Acrylic, Cellulose, Alkyd and Epoxy.

Product Code:	Size:
84636052	500ml Aerosol Can (Bright Silver Finish)
84636096	500ml Aerosol Can (Black)



BOSS™ Paint Brushes

Made from pure bristle. Available in the following sizes:

Product Code:	Size:
84652001	1/2"
84652012	1"
84652023	1 1/2"
84652034	2"
84652045	3"
09864782	4"



BOSS™ Flux Brushes

BOSS™ Flux Brush assists with the application of soldering products in an easy and efficient manner. The synthetic hair is resistant against aggressive fluxes.

Product Code:	Size:
88010604	Bag of 25



Box of Industrial Rags

A 5kg box of coloured t-shirt cotton rags, useful to keep onsite or in the van for wiping, cleaning etc.

Product Code:	Size:
88089889	5kg Box



Chemical Water Treatment

X-PO10 Inhibitor

- Superior all-round system protection up to 90°C
- Unbeatable heating/chilled/condenser water system protection
- Super concentrate formula – dilutes further than other brands
- Lowers CO₂ emissions
- Increased system performance and lifespan
- Exceptional protection in both hard and soft water systems
- Effective up to 90°C
- Environmentally friendly
- Neutral pH formula
- Can be used on mixed metals and plastic pipework

Product Code:	Size:
16910563	5L Drum
16910574	10L Drum
16910840	20L Drum
16910316	1000L IBC
16910596	X-PO10 Inhibitor Test Kit (10 Tests)



X-PO10 Domestic Easy Dose

- BOSS™ X-PO10 is also available in a 250ml residential easy dose with pull-up spout
- Doses up to 15 radiators.

Product Code:	Size:
16910670	250ml Easy Dose



X-PO35 Non-flush Cleaner

- Sanitiser and cleanser without the need to flush
- Unbeatable sanitiser and cleanser for heating, chilled and condenser water systems
- Lifts and mobilises contaminants and bio-films until captured by a BOSS™ X-POT*
- Cleans and passivates bare metal surfaces
- Prevents the risk of under-deposit corrosion
- Super concentrate formula 10L treats up to 2,800 Litres of system volume
- Remains within the system, no need to drain after treating

Product Code:	Size:
16910681	10L Drum
16910851	20L Drum



Chemical Water Treatment

X-PO20 De-scaling Agent

- Removes and dissolves lime-scale deposits
- Unbeatable heating, chilled and condenser water de-scaling agent
- Eliminates boiler noise
- Super concentrate formula 10L treats up to 2,800 Litres of system volume
- Can remain within the system, no need to drain after treating
- Strips limescale from heat exchangers and other components
- Non-toxic
- Non-acidic formulation
- Environmentally friendly



Product Code:	Size:
16910327	10L Drum

X-PO40 Heavy Duty De-sludger

- Heavy duty de-sludging agent for aged systems
- Superior de-sludging agent for old or blocked heating, chilled and condenser water installations
- Increases system performance and efficiency
- Lowers system running costs
- Removes cold spots and increases system circulation
- Super concentrate formula 10L treats up to 2,800 Litres of system volume
- Neutral pH. Friendly to all common system materials



Product Code:	Size:
16910371	10L Drum

X-PO45 New System Cleaner

- Cleans and passivates new system installations
- Superior pre-commissioning cleaning agent for heating, chilled and condenser water installations
- Tackles mill scale, flux, oils and flash corrosion
- Dispersal power technology
- Prepares metal surfaces for passivation
- Super concentrate formula 10L treats up to 2,800 Litres of system volume
- Neutral pH. Friendly to all common system materials



Product Code:	Size:
16910349	10L Drum

Chemical Water Treatment

X-PO Anti-freeze Inhibitors

- Glycol heat transfer inc. inhibitor range
- Superior range of glycol based anti-freezes
- Includes BOSS™ X-PO10 Inhibitor protection
- Increases system performance and efficiency
- Nitrate and borate free
- X-PO50 Non-hazardous monopropylene ready mixed to -12°C
- X-PO55 Non-hazardous monopropylene concentrate
- X-PO60 Monoethylene ready mixed to -10°C
- X-PO65 Monoethylene concentrate



Product Code:	Size:
16910862	X-PO50 Monopropylene Ready-mix (20L Drum)
16910873	X-PO55 Monopropylene Concentrate (20L Drum)
16910884	X-PO60 Monoethylene Ready-mix (20L Drum)
16910895	X-PO65 Monoethylene Concentrate (20L Drum)

X-PO80 System Biocide

- Kills all common bacteria found in systems
- Rapid acting Biocide for heating, chilled & condenser water
- Kills Legionella, Pseudomonas, NRB & SRB bacteria
- Kills fungi and algae
- Increases system performance
- Lowers system running costs
- Effective up to 60°C
- Ultra concentrate 5L treats up to 50,000 Litres
- Non hazardous user friendly formula
- Effective dose rate of 100ppm
- Neutral pH formulation



Product Code:	Size:
16910393	5L Drum



TREATMENT CHEMICAL CO

CHEMICAL DETAILS AND APPLICATION

DESCRIPTION	APPLICATION
Inhibitor	Closed Heating & Cooling
Inhibitor	Closed Heating & Cooling
De-Scaler	Closed Heating & Cooling
New System Cleaner	Closed Heating & Cooling
Old System Cleaner	Closed Heating & Cooling
Solar Thermal Cleaner	Solar Thermal Only
Filter / Aid Cleaner	Closed Heating & Cooling
Neat / Concentrate Inhibited Propylene Glycol	Closed Heating & Cooling
Ready-Mixed Inhibited Propylene Glycol	CHW & Ground Source Heat Pumps
Neat / Concentrate Inhibited Propylene Glycol	CHW & Ground Source Heat Pumps
Neat / Concentrate Inhibited Propylene Glycol	Air Source Heat Pumps
Ready-Mixed Inhibited Ethylene Glycol	Commercial Heating & Cooling
Neat / Concentrate Inhibited Ethylene Glycol	Commercial Closed Heating & Cooling
Solar Thermal Fluid	Solar Thermal Only
Disinfectant	All closed systems



SENTINEL PRODUCT	DOSE RATE v/v
Sentinel X100	1%
Sentinel X100	1%
Sentinel X200	1%
Sentinel X300	1%
Sentinel X400	1%
Sentinel X900	0.5%
Sentinel X500	On site by v/v
Sentinel R500 (-22°C Protection)	Ready to use
Sentinel R500C	On site by v/v
Sentinel R600	On site by v/v
Sentinel R100 (-25°C)	Ready to use
Sentinel Senticide 7500	1%

COMPARISON SHEET

X-PO[®] RANGE

FERNOX

FERNOX PRODUCT	DOSE RATE v/v
Fernox F1	0.5%
Fernox MB1	1%
Fernox F2	0.5%
Fernox F3	0.5%
Fernox F4	0.5%
Fernox Solar Cleanser	2.0%
Fernox FC1 (Filter Fluid +)	0.5%
Alphi-11	On site by v/v
Fernox Solar S1 (Con.) & Fernox HP-15	On site by v/v
Fernox Solar S1 (-28°C)	Ready to use
Fernox HP Cleaner MUST FLUSH OUT!	0.02%

BOSS PRODUCT	DOSE RATE v/v
X-PO10 [®] INHIBITOR	0.36%
X-PO10 [®] INHIBITOR	0.36%
X-PO20 [®] DE-SCALER	0.36%
X-PO45 [®] NEW SYSTEM	0.36%
X-PO40 [®] DE-SLUDGER	0.36%
X-PO35 [®] NON-FLUSH	0.36%
X-PO55 [®] PROPYLENE	On site by v/v
X-PO50 [®] PROPYLENE	Ready to use to -12°C
X-PO55 [®] PROPYLENE	On site by v/v
X-PO55 [®] PROPYLENE	On site by v/v
X-PO60 [®] ETHYLENE	Ready to use to -10°C
X-PO65 [®] ETHYLENE	On site by v/v
Ultra Concentrate formula goes further	
X-PO80 [®] BIOCIDES	0.01%

NOT FOR DOMESTIC HWS

Shelf Life Information

Product Code	Description	Size	Product Section	Unopened	Opened	Date on Pack
84410508	BOSS™ White	400g Tub	Jointing Compounds	Does not have a shelf life, although a skin may form on top as it is linseed oil based. Once skin removed this product is perfectly safe to use	Does not have a shelf life, although a skin may form on top as it is linseed oil based. Once skin removed this product is perfectly safe to use	Date of manufacture
84410519	BOSS™ Universal	500g Tub	Jointing Compounds	3 years. Thin skin and/or oil layer can form if unused for period of time but this will mix in with use	3 years. Thin skin and/or oil layer can form if unused for period of time but this will mix in with use	Date of manufacture
84410711	BOSS™ White Universal	400g Tub	Jointing Compounds	Does not have a shelf life, although a skin may form on top as it is linseed oil based. Once skin removed this product is perfectly safe to use	Does not have a shelf life, although a skin may form on top as it is linseed oil based. Once skin removed this product is perfectly safe to use	Date of manufacture
84510094	BOSS™ Supergreen	400g Tub	Jointing Compounds	Does not have a shelf life	Does not have a shelf life	Date of manufacture
84612608	BOSS™ Gastite	400g Tub	Jointing Compounds	Does not have a shelf life. Product based on a non drying oil/castor oil and may separate overtime	Does not have a shelf life. Product based on a non drying oil/castor oil and may separate overtime	Date of manufacture
84630007	BOSS™ Non-Soluble Cutting Oil	5 Litre Bottle	Cutting Oils	12 months. After which packs should be inspected for condition if ok re-inspect every 3 months	Use within 3 months of opening	Date of manufacture
84630073	BOSS™ Soluble Cutting Oil	5 Litre Bottle	Cutting Oils	12 months. After which packs should be inspected for condition if ok re-inspect every 3 months	Use within 3 months of opening	Date of manufacture
88013610	BOSS™ Silicone Sealant (White)	310ml Tube	Sealants	12 months	Fully depending on circumstances such as temperature, humidity and period once packaging opened	Week, Day Year. eg 43217 would be Day 2 of Wk43 (November) 2017.
88013621	BOSS™ Silicone Sealant (Clear)	310ml Tube	Sealants	12 months	Fully depending on circumstances such as temperature, humidity and period once packaging opened	Week, Day Year. eg 43217 would be Day 2 of Wk43 (November) 2017.
79022710	BOSS™ Eco Cleaner	1/2 Litre Tin	Solvents and Cleaner for Plastics	3 years	Fully depending on circumstances such as temperature, humidity and period once packaging opened	Week, Day Year. eg 43217 would be Day 2 of Wk43 (November) 2017.
72117950	BOSS™ PVCU Non Pressure Solvent Cement	250ml Bottle	Solvents and Cleaner for Plastics	12 months	Fully depending on circumstances such as temperature, humidity and period once packaging opened	Week, Day Year. eg 43217 would be Day 2 of Wk43 (November) 2017.
79088020	BOSS™ PVCU Pressure Solvent Cement	500ml Tin	Solvents and Cleaner for Plastics	12 months	Fully depending on circumstances such as temperature, humidity and period once packaging opened	Week, Day Year. eg 43217 would be Day 2 of Wk43 (November) 2017.

Shelf Life Information

Product Code	Description	Size	Product Section	Unopened	Opened	Date on Pack
79088075	BOSS™ ABS Pressure Solvent Cement	500ml Tin	Solvents and Cleaner for Plastics	2 years	Fully depending on circumstances such as temperature, humidity and period once packaging opened	Week, Day Year. eg 43217 would be Day 2 of Wk43 (November) 2017.
06768008	BOSS™ Red Oxide Primer	2.5 Litre Tin	Paints and Brushes	Indeterminable due to various exterior factors	12 months though not unsaleable after this time	Date of manufacture
06768019	BOSS™ Red Oxide Primer	5 Litre Tin	Paints and Brushes			
06768074	BOSS™ Zinc Phosphate Primer	5 Litre Tin	Paints and Brushes	Indeterminable due to various exterior factors	12 months though not unsaleable after this time	Date of manufacture
06768052	BOSS™ Gas Paint	2.5 Litre Tin	Paints and Brushes	Indeterminable due to various exterior factors	12 months though not unsaleable after this time	Date of manufacture
06768030	BOSS™ White Spirit	2 Litre Bottle	Paints and Brushes	Indeterminable due to various exterior factors	12 months though not unsaleable after this time	Date of manufacture
84636019	BOSS™ Gas Leak Detector Spray	400ml Aerosol Can	Aerosols	10 years	Fully depending on storage conditions. Corrosion may form on outside of can if not stored in dry conditions	Manufacturer can identify date by batch number printed
84636115	BOSS™ Spray Lubricant	500ml Aerosol Can	Aerosols	10 years	Fully depending on storage conditions. Corrosion may form on outside of can if not stored in dry conditions	Manufacturer can identify date by batch number printed
84636030	BOSS™ Thread Cutting Fluid	500ml Aerosol Can	Aerosols	10 years	Fully depending on storage conditions. Corrosion may form on outside of can if not stored in dry conditions	Manufacturer can identify date by batch number printed
84636104	BOSS™ Thread Cutting Fluid	500ml Poly Bottle	Aerosols	10 years	Fully depending on storage conditions. Corrosion may form on outside of can if not stored in dry conditions	Manufacturer can identify date by batch number printed
84636052	BOSS™ Galvanise Paint Spray (Silver)	500ml Aerosol Can	Aerosols	10 years	Fully depending on storage conditions. Corrosion may form on outside of can if not stored in dry conditions	Manufacturer can identify date by batch number printed
84636096	BOSS™ Galvanise Paint Spray (Black)	500ml Aerosol Can	Aerosols	10 years	Fully depending on storage conditions. Corrosion may form on outside of can if not stored in dry conditions	Manufacturer can identify date by batch number printed



OVER
100 YEARS
OF QUALITY
