

AUTOMOTIVE

COOLANT, BRAKE FLUID AND SCREEN WASH





Haltermann Carless offers an extensive range of automotive coolants, brake fluids and screen washes. These products are formulated to meet the exacting needs of modern high performance vehicles.

Haltermann Carless is part of the 'H•C•S Group' of companies specializing in high-value hydrocarbons and specialities, and tailored hydrocarbon solvents and blends.

Haltermann Carless is a key crude and gas condensate off-take partner for North Sea producers. We make a range of high performing oil products from drilling muds to racing fuels.

Haltermann Carless is at the centre of the global chemicals business. The world's largest speciality chemical companies rely on us to supply business critical products. Haltermann Carless is also major producer of coolants and other automotive fluids.

Haltermann Carless has achieved its high performance and growth by being a reliable and responsive long-term business partner. We are always ready to explore new business opportunities, supported by our state-of-the-art laboratories and technical teams.

Haltermann Carless buys oil and chemical feed-stocks, refines, blends, and sells them worldwide. We use our own unique business model focusing on developing sustainable niches.



Feedstock sources

Haltermann Carless likes unusual grades of feedstock and has the flexibility to take them in by ship, rail or road. Haltermann Carless also welcomes materials from small fields and enters into long term arrangements through which producers are guaranteed fair product value.

Important feedstocks include crude oil and gas condensate. Other feedstocks include pipeline interfaces and middle distillate streams sourced globally.

Haltermann Carless refinery in Harwich, has ship, rail and road intake and despatch.

Refining and blending

The Harwich refinery specialises in very finely cut distillation, and has outstanding flexibility to blend a wide range of products, many for speciality markets.

It has a world-class laboratory and technical teams who apply their expertise at all stages of our processes; from feedstocks coming into the Company, through refining and blending, to finished products. These capabilities allow Haltermann Carless to unlock the value in unusual hydrocarbons.

Haltermann Carless provides vital condensate evacuation for Gas majors in the North Sea and around the world.

Haltermann Carless produce oil products that go into long term niche markets, including :

- Heating oils for the UK market and Specialist Gas Oils & Straight Run Fuel Oils
- Aromatic solvents for crop protection and fuel additives
- Speciality oils such as drilling fluids, baseoils, printing inks distillates and process oils
- Racing and development fuels

Sustainability of the business

Haltermann Carless operates in specialist markets. As larger companies streamline, the fields of business open to Haltermann Carless widen.

Haltermann Carless has grown healthily in recent years, despite the general economic climate, and maintain a sound financial position with attractive growth prospects.

Haltermann Carless sales have grown towards £400m p.a, based on volumes of approximately 650m litres.

Dedicated Automotive Production & Distribution Services

Haltermann Carless is uniquely placed in the market in that it has the advantage of two dedicated blending and storage centres for the production and distribution of automotive products.

From these strategically located centres, Haltermann Carless has the ability to competitively cover the major consumption markets in North West Europe.

Haltermann Carless facilities are located in Scunthorpe, UK and Antwerp, Belgium. Both facilities perform blending, storage, filling and distribution services. With the support of a number of longstanding freight and distribution partners our comprehensive range of automotive products can be supplied directly to Customers warehouses in both bulk and packed form - including the provision of IBC's, flexibags, drums and 20L cans.

Quality control is centrally managed for both sites via an in-house Technical Services Team with its own dedicated laboratory located in Scunthorpe, UK.



Modern engine coolants are more than just antifreeze. They are year round engine coolants that provide not only frost protection, but also protect the range of metals found in modern automotive cooling systems against corrosion. Coolants must also have good compatibility with elastomers and have low foaming and low scaling characteristics to ensure optimum heat transfer performance.

Modern coolants must be suitable for use in all cooling systems whether they are constructed predominantly from traditional ferrous metals or the more modern aluminium alloys and polymeric composites.

In certain applications the use of specific corrosion inhibitors is not permissible or desirable for technical or environmental reasons. Specialised formulations are required to meet these criteria and maintain high performance levels.

Our products are suitable for a large range of vehicles, from passenger to heavy goods vehicles. We have highlighted each product with this simple guide:

Passenger Vehicles
Light Commercial Vehicles
Heavy Duty Vehicles
Heavy Goods Vehicles



GP3 (UK) & AF1 (EU)



These products are ethylene glycol based engine coolant concentrates formulated for use in all engines including those constructed from aluminium alloys. They employ established inhibitor technology and are nitrite, amine and phosphate (NAP) free and includes borate and silicate. These products exceed the requirements of many European and International Standards including: AFNOR R15-601, ASTM D3306, SAE J 1034 & BS 6580-2010.

AF2 with Glycerine (EU)



AF2 is an ethylene glycol based engine coolant concentrate formulated for use in all engines including those constructed from aluminium alloys. It employs established inhibitor technology and is nitrite, amine and phosphate (NAP) free and includes borate and silicate.

BTC classification Type 2E.

AF2 uses sophisticated silicate stabilisation technology to eliminate the potential for formation of silicate gel often observed with inferior products whilst other additives ensure good compatibility with hard water and prevent the formation of scale that can result from use of hard water. AF2 is specifically formulated to exceed the requirements of BS 6580-2010, It also meets the requirements ASTM D3306 Type V and AFNOR 15-601.

EXLC5 Extended Life



This ethylene glycol based engine coolant uses inhibitors employing organic acid technology (OAT) to provide long lasting corrosion protection.

Exceeds the requirements of BS 6580-2010 and ASTM D-3306 Type 1 and meets the requirements of most motor manufacturers. This product is phosphate, nitrite and amine free.



SiXLC6



This Ethylene Glycol based coolant concentrate uses Organic Acid Inhibitor technology, together with silicate. This ensures optimum corrosion protection for the latest high performance engines constructed from modern light-weight alloys.

It is free from nitrites, amines, phosphates and borates. SiXLC6 employs sophisticated stabilisation technology to ensure that it has excellent hard water stability and very low inhibitor depletion rates.

SiXLC6 exceeds the requirements of BS 6580-2010 and ASTM D-3306 Type 1 and meets the requirements of a number of motor manufacturers.

MXLC5/50 Premix



This ethylene glycol based engine coolant concentrate, which uses Organic Acid Inhibitor Technology and is free from nitrites, amines, phosphates, borates and silicates. Its additive package has been specifically formulated to provide excellent continued corrosion protection for all types of engines under the most demanding conditions.

Testing has shown that MXLC5 provides good corrosion protection to all the components found in modern engines. Unlike traditional coolants, which employ inorganic inhibitors, MXLC5 has excellent hard water stability and very low inhibitor depletion rates. MXLC5 exceeds the requirements of BS 6580-2010 and ASTM D-3306 Type 2 and meets the requirements of a number of motor manufacturers.

HD4X & HD4X50 Premix



HD4X is an ethylene glycol based engine coolant concentrate formulated for optimum performance in heavy duty diesel engine applications but equally suitable for light duty use. It employs established inhibitor technology and is phosphate and amine free.

The inhibitors in HD4X include organic acids in combination with borate, silicate and nitrite which are well known for their ability to provide excellent protection in heavy duty applications particularly where there is potential for cavitation erosion-corrosion to occur.

HD4X uses sophisticated stabilisation technology to eliminate the potential for formation of silicate gel (often observed with inferior products). Other additives ensure good compatibility with hard water. These prevent the formation of scale that can result from dilution with hard water.

HD5X & HD5X50 Premix



HD5X is a premium ethylene glycol based engine coolant concentrate formulated for optimum performance in all engines including heavy duty diesel engine applications.

It employs hybrid inhibitor technology and is nitrite, amine and phosphate free.

The inhibitors in HD5X include organic acids in combination with borate and silicate, which is a well proven inhibitor technology renowned for its ability to provide excellent corrosion protection. HD5X uses sophisticated silicate stabilisation technology to eliminate the potential for formation of silicate gel often observed with inferior products, whilst other additives ensure good compatibility with hard water and prevent the formation of scale that can result from use of hard water. HD5X does not contain linear organic acids such as 2-ethyl hexanoic acid which have been implicated in certain hose and seal compatibility issues in older vehicles.



Radiator Protector



This product is a low toxicity inhibitor concentrate. Based on Organic Acid Technology, Radiator Protector in aqueous solution provides long-life corrosion protection for all engine cooling system metals. This is for countries that do not need freeze protection.

Mixed at a 5% concentration with water, this product is a viable alternative to Mono Ethylene Glycol based antifreeze. Whilst delivering superior heat transfer capabilities due to the water content it also protects all components due to its superior organic corrosion technology.

MPG Coolant 101



TRIGUARD™

This revolutionary antifreeze is made from mono propylene glycol (MPG) which is much less toxic than traditional

MEG based products. Extensive tests show that well inhibited mono propylene glycol based antifreezes are just as effective as MEG based products in providing freeze and corrosion protection.

- Advanced mono propylene glycol based formulation
- Significantly reduced toxicity, yet similar freeze/corrosion performance compared to MEG based alternatives
- Exceeds requires requirements of BS 6580-2010, AFNOR NFR 15-601 and ASTM D-3306 Type III

AL39



AL39 is an ethylene glycol based engine coolant concentrate which uses Carboxylic Acid Inhibitor Technology and is free from nitrites, amines, phosphates, borates and silicates.

It is formulated in accordance with the United Kingdom military specification for engine coolant DEF STAN 68 - 127 (NATO Code S757)

When used at the correct concentration it provides long lasting corrosion protection for a minimum of four years or 150,000 km and is suitable for use in all vehicles. Unlike traditional coolants which employ inorganic inhibitors, AL39 has excellent hard water stability and very low inhibitor depletion rates.

AL39 exceeds the requirements of most European and International Standards including: NATO 757, ASTM D3306, ASTM D 4985, BS 6580-2010, AFNOR NF R15-601 with the exception of reserve alkalinity.

GXLC5



Unlike traditional engine coolants that are based on glycol, a synthetic material derived from fossil fuels, GXLC5 is based on glycerine, a natural material that is a by product from bio-diesel production and is derived from renewable resources.

GXLC5 is non-toxic to both humans and animals, is non-hazardous to the environment and is readily biodegradable.

GXLC5 is a ready to use product that does not require further dilution for use thereby ensuring the correct concentration is used and problems caused by the use of hard water are eliminated. It employs organic acid technology corrosion inhibitors and is nitrite, amine, phosphate, borate and silicate free.

GXLC5 exceeds the requirements of ASTM D7714 -11 Type II. It also exceeds the requirements for coolants prepared from concentrate meeting BS 6580-2010.



Industry issues

Brake fluids must meet the most rigorous performance standards. Critical factors include dry and wet equilibrium boiling points, viscosity, pH, rubber swell and material compatibility with braking systems components.

Haltermann Carless' brake fluids exceed the world's toughest standards, including those set by the Department of Transportation's National Highways Traffic Safety Administration (DOT NHTSA), the Society of Automotive Engineers (SAE) and the International Organisation for Standardisation (ISO). Fluids are available in a range of equilibrium reflux boiling points to suit individual customer requirements.

Brake Fluid DOT3 (210/230)

DOT3 hydraulic brake fluid is a glycol ether based fluid formulated to exceed the requirements of the major internationally recognised hydraulic brake fluid standards: FMVSS No 116 DOT3, SAE J1703 and ISO4925 Class 3.

Brake Fluid DOT4

XHD 260 DOT4 hydraulic brake fluid is a glycol ether based fluid formulated exclusively from virgin materials to exceed the requirements of the major internationally recognised hydraulic brake fluid standards: FMVSS No 116 DOT4, SAE J1704 and ISO4925 Class 4.

Brake Fluid DOT4 LV (Low Viscosity)

Brake Fluid DOT4 LV is a glycol based ether based fluid formulated exclusively from virgin materials to exceed the requirements of the major internationally recognised brake fluid standards: FMVSS No 116 DOT4, SAE J1704 and ISO4925 Class 6.

Brake Fluid DOT5.1

Brake Fluid DOT5.1 hydraulic fluid is a glycol ether based fluid formulated exclusively from virgin materials to exceed the requirements of the major internationally recognised hydraulic brake fluid standards: FMVSS No 116 DOT5.1, SAE J1704 and ISO4925 Class 5-1.



Industry issues

Screen wash is used in vehicle windscreen and headlight washing systems. It is added to water to provide a cleaning liquid used all year round, and used in different concentrations to provide different levels of frost protection to the wash system.

Petroscreen SC16



Petroscreen SC16 is a bio-alcohol based concentrate containing anionic surfactant, for use in screen wash and de-icing fluids.

Petroscreen SC16 is a low foam product with good tolerance to hard water. Formulations based on SC16 would normally include additional water at a level necessary to achieve the desired freezing point as well as additional water-soluble anionic surfactant to promote surface wetting.

Additional glycol can be included to give high flash point/low freeze products. Chemical softeners can be added for when dilution in hard-water areas is required.

COOLANTS

GP3 (UK) & AF1 (EU)



AF2 with Glycerine (EU)



EXLC5 Extended Life



SiXLC6



MXLC5/50 Premix



HD4X & HD4X50 Premix



HD5X & HD5X50 Premix



Radiator Protector



MPG Coolant 101



AL39



GXLC5



BRAKE FLUID

Brake Fluid DOT3 (210/230)



Brake Fluid DOT4



Brake Fluid DOT4 LV (Low Viscosity)



Brake Fluid DOT5.1



SCREEN WASH

Petroscreen SC16



For more information please visit:
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Passenger Vehicles



Light Commercial Vehicles



Heavy Duty Vehicles



Heavy Goods Vehicles

