



Antifreeze/Coolant Concentrate

Nitrite, amine and phosphate-free cost efficient coolant concentrate (Supersedes Antifreeze/Coolant)

Product description

Antifreeze/Coolant Concentrate is a nitrite, amine and phosphate-free cost efficient coolant concentrate. It offers freezing, boiling and corrosion protection.

Customer benefits

- Offers good corrosion protection to a wide range of metals including non-ferrous components
- Compatible with a range of seal materials, contributing to leak protection
- Promotes efficient freeze protection and boiling resistance

Product highlights

- **Offers good corrosion protection**
- **Compatible with a range of seal materials**
- **Promotes freeze and boiling resistance**

Selected specification standards include:

BS 6580 : 1992

BS 6580 : 2010

Applications

- Antifreeze/Coolant Concentrate offers year-round freeze and corrosion protection.

This product is not to be used to protect the inside of potable water systems against freezing.

Approvals, performance and recommendations

Performance

Antifreeze/Coolant Concentrate meets the requirements of:

- British Standard BS 6580 : 1992 and BS 6580 : 2010

Product containing 25% or more 1,2 ethanediol which is supplied as packaged goods intended for retail to the general public must contain 25 ppm or more of denatonium benzoate, or the package must be fitted with a childproof closure.

Product maintenance and handling

- Antifreeze/Coolant Concentrate should be stored above -20°C and preferably at ambient temperatures
- Periods of exposure to temperatures above +35°C should be minimised
- It is strongly advised not to expose Antifreeze/Coolant Concentrate in translucent packages to direct sunlight because this can result in discoloration over time. This reaction can be accelerated with high ambient temperatures. It is therefore advisable to store coolant in translucent packages indoors
- Antifreeze/Coolant Concentrate should be diluted before use
- For maximum protection against freezing in extremely cold areas, a 60% solution (3 parts coolant concentrate/2 parts water) can be used. Concentrations greater than 67% and lower than 33% are not recommended
- As with any antifreeze coolant, the use of galvanized steel is not recommended for pipes or any other part of the storage/mixing installation

Always dispose of used coolant in accordance with all local, state and federal guidelines.

Typical test data			
Test	Test Methods	Results	
Dilution		50/50	Concentrate
Shelf Life: 36 months from date of filling indicated on the product label			
Density at 20°C, Kg/L	ASTM D5931	1.074	1.131
Freezing point, °C	ASTM D1177	≤ -33	NA
Boiling point, °C	ASTM D1120	108	155
pH at 20°C, NUOM	ASTM D1287	8.4	8.6
Reserve alkalinity, mL 0.1N HCl	ASTM D1121	1.5	3.0
Hot Immersion Glassware Test BS 5117 : 2.2 ⁽¹⁾			
Copper, Weight loss, mg/coupon ⁽²⁾	BS 5117 : 2.2	NA	0 (10) ⁽³⁾
Solder, Weight loss, mg/coupon ⁽²⁾	BS 5117 : 2.2	NA	1 (15) ⁽³⁾
Brass, Weight loss, mg/coupon ⁽²⁾	BS 5117 : 2.2	NA	0 (10) ⁽³⁾
Steel, Weight loss, mg/coupon ⁽²⁾	BS 5117 : 2.2	NA	0 (10) ⁽³⁾
Cast iron, Weight loss, mg/coupon ⁽²⁾	BS 5117 : 2.2	NA	0 (10) ⁽³⁾
Aluminium, Weight loss, mg/coupon ⁽²⁾	BS 5117 : 2.2	NA	5 (15) ⁽³⁾
Aluminium Heat-transfer Conditions BS 5117 : 2.6 ⁽⁴⁾			
Aluminium, Weight loss, mg/cm ² /week ⁽²⁾	BS 5117 : 2.6	NA	-0.2 (1.0) ⁽³⁾

⁽¹⁾ Data generated on a 33vol% dilution as per the method
ASTM D1384 Glassware Corrosion Test is almost identical to BS 5117 : 2.2

⁽²⁾ Negative sign indicates a weight gain

⁽³⁾ Values in between “()” are BS 6580 : 1992 max limits

⁽⁴⁾ Data generated on a 25vol% dilution as per the method
ASTM D4340 Aluminium Heat Rejection Test is almost identical to BS 5117 : 2.6

The information given in the typical data does not constitute a specification but is an indication based on current production and can be affected by allowable production tolerances. The right to make modifications is reserved. This supersedes all previous editions and information contained in them.

Disclaimer Chevron accepts no liability for any loss or damage suffered as a result of using this product for any application other than applications specifically stated in any Product Data Sheet's.

Health, safety, storage and environmental Based on current available information, this product is not expected to produce adverse effects on health when used for the intended application and in accordance with the recommendations provided in the Material Safety Data Sheet (MSDS). MSDS's are available upon request through your local sales office, or via the Internet. This product should not be used for purposes other than its intended use. When disposing of used product, take care to protect the environment and follow local legislation.

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