

**H/OAT LONG LIFE ANTIFREEZE** is an ethylene glycol-based engine coolant concentrate formulated for optimum performance in heavy duty diesel engine applications. The modern Hybrid-OAT formulation utilises Organic Acid Inhibitor Technology and is free from nitrites, amines, phosphates.

## APPLICATION

Designed primarily to operate in coolant systems of heavy commercial vehicles as well as off-highway plant, but also suitable for light duty use where this specification of coolant is required. The inhibitor technology in combination with borate and silicate provide excellent corrosion protection in all applications, and superior silicate stabilization eliminates the potential for silicate gel formation. A 50% dilution rate is recommended in the absence of advice from the OEM.

## BENEFITS

- Protects from frost damage down to -40°C at 50% of total coolant volume.
- Exceptional corrosion protection giving extended life of up to 5 years.
- Free from nitrites, amines, and phosphates in accordance with many OEM requirements.

**PERFORMANCE PROFILE** - Meets the requirements of the following standards and specifications:-

- BS 6580:1992
- ASTM D4985, D3306, D6210
- JIS K2234
- AFNOR NF R15-601
- SAE J 1034
- VAG G11, TL 774-C
- **Suitable for use where G48 specification fluid is required.**

SOLUTION - % VOLUME	FREEZE POINT PROTECTION	S.G. READING
25%	-12°C	1.030
33%	-22°C	1.045
50%	-40°C	1.074

## TYPICAL PROPERTIES

Appearance: Blue/Green Colour

Conforms to British Standard BS 6580:1992

	METHOD	UNITS	MIN	MAX	TYPICAL
Density @ 20°C	ASTM D4052	mg/cm <sup>3</sup>	1.110	1.145	1.123
Water Content	ASTM D1123	% wt	-	5	3
Reserve Alkalinity (0.1N HC1)	ASTM D1121	mL	-	-	15
pH Value - 50% Vol Aqueous Solution.	ASTM D1287	n.u.o.m	7.5	11	8.0
Boiling Point - Equilibrium Reflux	ASTM D1120	°C	163	-	170

## HEALTH & SAFETY

This product has been manufactured to the highest standards and when used for the purpose recommended is unlikely to present any significant health hazards. A Material Safety Data Sheet is available.

Indicated data are approximate values and are subject to the usual commercial fluctuations. All information correct at time of going to press to the best of our knowledge. This information may be subject to change without notification due to continual product research and development.