

# **OPUS LUBRICANTS PRODUCT DATA**

## **ANTIFREEZE 4XHD**

### **Description**

Opus Antifreeze 4XHD 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. BTC Classification type 3EN. The inhibitors in Opus Antifreeze 4XHD 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. Opus Antifreeze 4XHD 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. Can be retained in cooling systems for up to 4 years.

### **Performance Standards**

Opus Antifreeze 4XHD exceeds the requirements of most European and International Standards including:

ASTM D3306, ASTM D 4985, SAE J 1034, BS 6580 (1992), AFNOR, NF R15-601

It also meets the requirements of the following Vehicle/ Engine Manufacturer's OEM specifications:

MAN 324, Cummins, BR 637, Leyland, Fiat / Iveco, MTU, Perkins, John Deere

### **Physical Properties**

Appearance:	Green
Density @20°C mg/cm³:	1.119
Equilibrium Reflux Boiling Point °C:	197
Freezing Point °C (50% Dilution by vol.):	-37
Freezing Point °C (33% Dilution by volume):	-20
pH (50% vol.):	8.2
Reserve Alkalinity 0.1N HCI:	14
Water Content:	4
Foaming Properties - Vol. (ml):	10
- Break (s):	1

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