Technical Information

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Fuel & Lubricant Solutions



Breox® 75 W 18000

Chemical composition

Diol started random propylene oxide/ethylene oxide copolymer

Properties

Physical form

Colorless to slightly yellow liquid

Physical data

Characteristic	Unit	Breox 75 W 18000		
Viscosity (ASTM D445) at 40 °C at 100 °C	mm ² /s	18000 2540		
Viscosity index (ASTM D2270)		414		
Water content (ASTM E203)	%	< 0.25		
Density, 20 °C (ASTM D1298)	g/cm ³	1.095		
Flash point coc (ASTM D92)	°C	245		
Pour point (ASTM D97)	°C	6		
Ash content (ASTM D482)	%	< 0.1		
Refractive index, 20 °C		1.466		
Vapor pressure, 20 °C	mmHg	< 0.001		
Specific heat capacity	kJ/kg	1.95		
Equilibrium water content at 65% relative humidity, 21-28 °C		4-6		

Quality control

The above-listed data represent average values at the time of going to press of this Technical Information. They are intended as a guide to facilitate handling and cannot be regarded as specified data. Specified product data are issued as a separate product specification.

Applications

Breox 75 W 18000 is a high performance water soluble polyalkylene glycol lubricant basefluid with a viscosity of 18000 mm²/s at 40 °C.

Breox 75 W 18000 shows high thermal and high shear stability.

The high viscosity and low volatility of Breox 75 W 18000 makes it very suitable for high temperature lubrication.

Breox 75 W 18000 finds extensive application in quenchants, metalworking fluids and water based hydraulic fluids formulations, demonstrating excellent shear stability and providing good lubricity to the finished fluids.

Breox 75 W 18000 is soluble in water at temperatures below 75 °C.

Additional information

Derived products

For ease of handling, Breox 75 W 18000 is also available as water solutions.

Breox TB 150 is an aqueous solution of Breox 75 W 18000 containing 30 % water.

Breox TB 195 is an aqueous solution of Breox 75 W 18000 containing 40 % water.

Regulatory status

REACH	TSCA	DSL	ENCS (JP)	(147)	IECSC	(511)	AICS	NZIOC
yes	yes	yes	yes	yes	yes	yes	yes	yes

Storage

Storage stability

- a) Breox 75 W 18000 should be kept tightly sealed in a dry place in its tightly sealed original packaging. Storerooms must not be overheated.
- b) Breox 75 W 18000 is hygroscopic with the result of absorbing moisture very quickly. Care needs to be taken to exclude moisture. Drums must be resealed each time they are opened.
- c) Breox 75 W 18000 must be blanketed with nitrogen if stored in heated tanks (at 50–60 °C) to prevent from coming into contact with air. Constant, gentle stirring helps to prevent discoloration as a result of prolonged contact with electrical elements or external heating coils.

Shelf life

Provided it is stored properly and the drums are kept tightly sealed, Breox 75 W 18000 has a shelf life of five years in its original packaging.

Safety

When using this product, the information and advice given in our **Safety Data Sheet** should be observed. Due attention should also be given to the **precautions** necessary for handling chemicals.

Note

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