

# BREOX 75W 55000

## INTRODUCTION

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**BREOX 75W 55000** is a diol started random propylene oxide / ethylene oxide copolymer manufactured to provide a viscosity of 55,000 cSt @ 40°C.

The high viscosity and low volatility of this product makes it very suitable neat for high temperature lubrication. It finds extensive application in polymer quenchants and water based hydraulic fluids, demonstrating excellent shear stability and providing good lubricity to the finished fluid. **BREOX 75W 55000** is water soluble at temperatures below 75°C and has two terminal hydroxyl groups.

In addition **BREOX 75W 55000** is FDA compliant under 21 CFR sections 175.105, 176.180, 176.200, 176.210, 177.1200, 178.3120, 178.3570 and 178.3190, and may therefore be used in relevant applications where the potential for incidental food contact exists.

## TYPICAL PHYSICAL PROPERTIES

		<b>75W 55000</b>
<b>Viscosity</b>	<b>cSt @ 40°C</b>	55,000
<b>Viscosity</b>	<b>cSt @ 100°C</b>	7900
<b>Viscosity Index</b>	<b>ASTM D 2270</b>	430
<b>Pour point, °C</b>	<b>ASTM D 97</b>	6
<b>Refractive Index</b>	<b>N<sup>20</sup> D</b>	1.45
<b>Specific Gravity</b>	<b>20 / 20°C</b>	1.10
<b>Flash Point, °C</b>	<b>COC</b>	240
<b>Water Content</b>	<b>% by wt</b>	<0.25
<b>Specific Heat</b>	<b>kJ / kg K</b>	1.95
<b>Ash</b>	<b>ASTM D 482</b>	<0.1
<b>Equilibrium Water content</b>	<b>At 65% RH and 21-28°C</b>	4-6
<b>Refractive Index</b>	<b>ND<sup>20</sup> D</b>	1.466

For ease of handling, **BREOX 75 W 55000** is also available as water solutions:

	<b>Thickener</b>	<b>Water Content</b>
<b>BREOX TB110</b>	75W 55000	25%

<b>BREOX TB120</b>	<b>75W 55000</b>	<b>40%</b>
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## **Remarks**

**Handling & Safety:**

**Storage:**

## **Revision-No.**

1.3-08.2004 Effective August 17, 2004

The product can be stored for at least 2 years at ambient storage conditions and temperature without any deterioration.

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