

# BREOX 50A 75

## INTRODUCTION

**BREOX 50A 75** is water-soluble monol initiated, ethylene oxide/propylene oxide co-polymers manufactured to provide a viscosity of 66 cSt @ 40°C.

These product finds extensive application when manufacturing and formulating various water soluble lubricants, for example:

- Gear, Bearing and Calender lubricants
- Compressor lubricants
- Metal working formulations

## TYPICAL PHYSICAL PROPERTIES

		<b>50A 75</b>
<b>Viscosity</b>	<b>cSt @ 40°C</b>	66
<b>Viscosity</b>	<b>cSt @ 100°C</b>	13.5
<b>Viscosity Index</b>	<b>ASTM D 2270</b>	210
<b>Pour point, °C</b>	<b>ASTM D 97</b>	-50
<b>Refractive Index</b>	<b>N<sup>20</sup>D</b>	1.46
<b>Specific Gravity</b>	<b>20 / 20°C</b>	1.04
<b>Flash Point, °C</b>	<b>COC</b>	232
<b>Vapour Pressure</b>	<b>mm Hg 20°C</b>	<0.001
<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>	<0.01
<b>Surface Tension, 20°C</b>	<b>Dynes / cm</b>	35 – 40

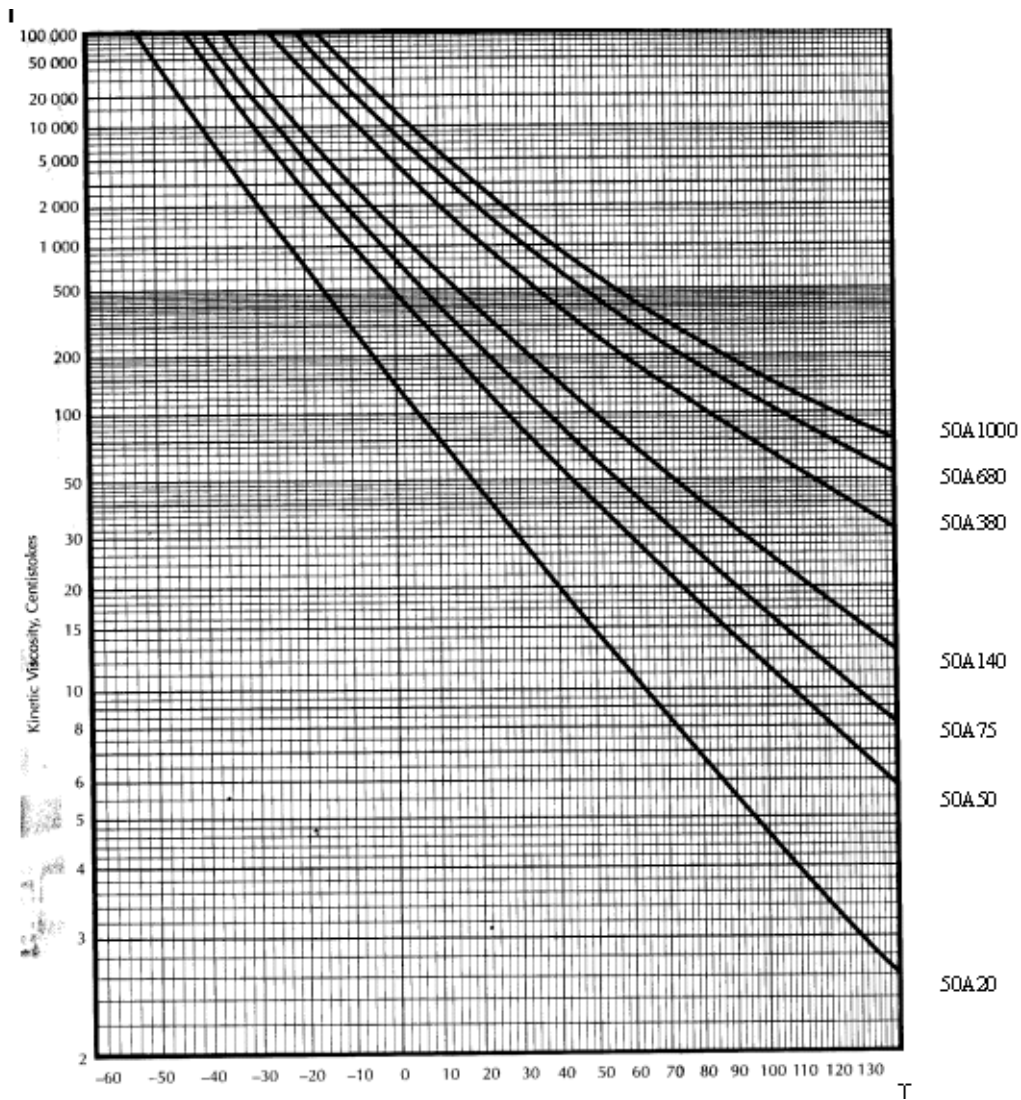
## FDA COMPLIANCE

**BREOX 50A 75** is FDA compliant and may therefore be used in relevant applicants where incidental food contact may occur. The table below summarises this in accordance with 21 CFR.

	<b>50A 75</b>
<b>173.310</b>	•
<b>173.340</b>	
<b>175.105</b>	•
<b>176.200</b>	

176.210	•
177.1200	
178.3120	•
178.3570	
178.319 0	

**VISCOSITY vs. TEMPERATURE BEHAVIOUR**



**Remarks**

**Handling & Safety:**

**Storage:**

**Revision-No.**

1.4-08.2004 Effective August 17, 2004

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

---

All products in the text marked with an © are trademarks of the Cognis group.

The information on product specifications provided herein is only binding to the extent confirmed by Cognis in a written Sales Agreement. COGNIS EXPRESSLY DISCLAIMS ANY RESPONSIBILITY FOR THE SUITABILITY OF THE PRODUCTS FOR ANY SPECIFIC OR PARTICULAR PURPOSES INTENDED BY THE USER. Suggestions for the use and application of the products and guide formulations are given for information purposes only and without commitment. Such suggestions do not release Cognis' customers from testing the products as to their suitability for the customer's intended processes and purposes. Cognis does not assume any liability or risk involved in the use of its products as the conditions of use are beyond its control. The user of the products is solely responsible for compliance with all laws and regulations applying to the use of the products, including intellectual property rights of third parties.

**Cognis Performance Chemicals UK Ltd - Charleston Industrial Estate,  
Hardley, Hythe, Southampton, SO45 3ZG, UK - Phone +44 (0) 2380 894666  
- Fax +44 (0) 2380 234113**

**F\_S**

