

# BREOX B 225

## INTRODUCTION

The **BREOX B-Series** are a range of monol initiated propylene oxide homo-polymers manufactured to provide a viscosity range from 15 to 335 cSt @ 40°C.

These products find extensive application when manufacturing and formulating various water insoluble lubricants for example:

- Gear and Calender lubricants
- Compressor lubricants
- Metal working formulations
- Textile lubricants

In addition the **BREOX B-Series** from B75 upwards are FDA approved under 21 CFR 178.3570 (Incidental contact with food) and can therefore be used in instances where the potential for food contamination exists.

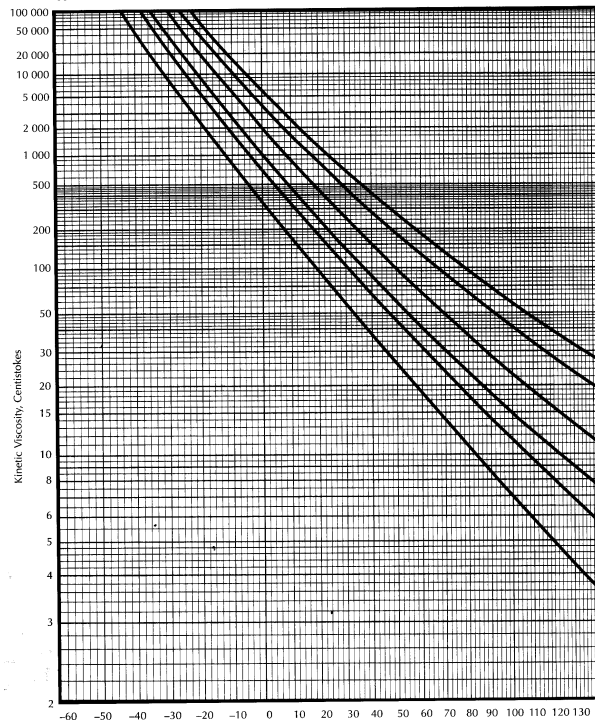
## TYPICAL PHYSICAL PROPERTIES

		<b>B 225</b>
<b>Viscosity</b>	<b>cSt @ 40°C</b>	224
<b>Viscosity</b>	<b>cSt @ 100°C</b>	36.7
<b>Viscosity Index</b>	<b>ASTM D 2270</b>	214
<b>Pour point, °C</b>	<b>ASTM D 97</b>	-37
<b>Refractive Index</b>	<b>N<sup>20</sup>D</b>	1.45
<b>Specific Gravity</b>	<b>20 / 20°C</b>	1.0
<b>Flash Point, °C</b>	<b>COC</b>	219
<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

## ELASTOMER PERFORMANCE

		<b>B225</b>
<b>Natural</b>	% Linear Swell	0
	Hardness Change	-1
<b>Styrene Butadiene (SBR)</b>	% Linear Swell	-0.4
	Hardness Change	-2
<b>Nitrile Butadiene (NBR)</b>	% Linear Swell	-0.4
	Hardness Change	2
<b>Isobutene Isoprene (IIR) 1</b>	% Linear Swell	0
	Hardness Change	1
<b>Isobutene Isoprene (IIR) 2</b>	% Linear Swell	-1.9
	Hardness Change	5
<b>Chloroprene</b>	% Linear Swell	0.8
	Hardness Change	-2
<b>Silicone</b>	% Linear Swell	0
	Hardness Change	-2

## VISCOSITY vs. TEMPERATURE BEHAVIOUR



### Remarks

**Handling & Safety:**

**Storage:**

### Revision-No.

2.3-08.2004 Effective August 17, 2004

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

---

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

