

# BREOX B 55

## 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.

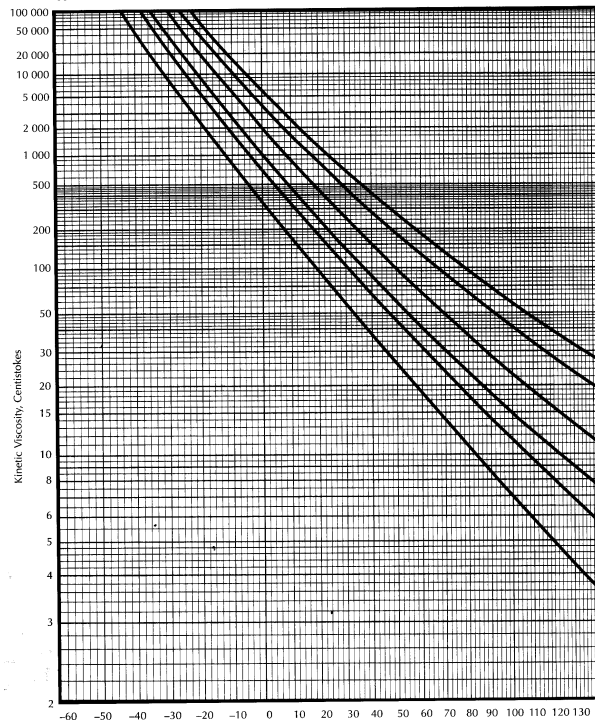
## TYPICAL PHYSICAL PROPERTIES

		<b>B 55</b>
<b>Viscosity</b>	<b>cSt @ 40°C</b>	56
<b>Viscosity</b>	<b>cSt @ 100°C</b>	10.7
<b>Viscosity Index</b>	<b>ASTM D 2270</b>	184
<b>Pour point, °C</b>	<b>ASTM D 97</b>	-57
<b>Refractive Index</b>	<b>N<sup>20</sup>D</b>	1.45
<b>Specific Gravity</b>	<b>20 / 20°C</b>	0.99
<b>Flash Point, °C</b>	<b>COC</b>	210
<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>B55</b>
<b>Natural</b>	% Linear Swell	2.6
	Hardness Change	-5
<b>Styrene Butadiene (SBR)</b>	% Linear Swell	3.2
	Hardness Change	-9
<b>Nitrile Butadiene (NBR)</b>	% Linear Swell	0
	Hardness Change	0
<b>Isobutene Isoprene (IIR) 1</b>	% Linear Swell	0
	Hardness Change	1
<b>Isobutene Isoprene (IIR) 2</b>	% Linear Swell	-0.4
	Hardness Change	2
<b>Chloroprene</b>	% Linear Swell	3.9
	Hardness Change	-9
<b>Silicone</b>	% Linear Swell	0.4
	Hardness Change	-3

## 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.

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