

BREOX 50A 50

INTRODUCTION

BREOX 50A 50 is a water soluble monol initiated, ethylene oxide/propylene oxide co-polymers manufactured to provide a viscosity of 52 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

		50A 50
Viscosity	cSt @ 40°C	52
Viscosity	cSt @ 100°C	11
Viscosity Index	ASTM D 2270	212
Pour point, °C	ASTM D 97	-53
Refractive Index	N²⁰ D	1.46
Specific Gravity	20 / 20°C	1.03
Flash Point, °C	COC	220
Vapour Pressure	mm Hg 20°C	<0.001
Water Content	% by wt	<0.25
Specific Heat	kJ / kg K	1.95
Ash	ASTM D 482	<0.01
Surface Tension, 20°C	Dynes / cm	35 – 40

ELASTOMER PERFORMANCE

		50A 50
Natural	% Linear Swell	0.6
	Hardness Change	-4
Styrene Butadiene (SBR)	% Linear Swell	1.2
	Hardness Change	-5
Nitrile Butadiene(NBR)	% Linear Swell	2
	Hardness Change	-4
Isobutene Isoprene (IIR) 1	% Linear Swell	0
	Hardness Change	-1
Isobutene	% Linear Swell	-1.4

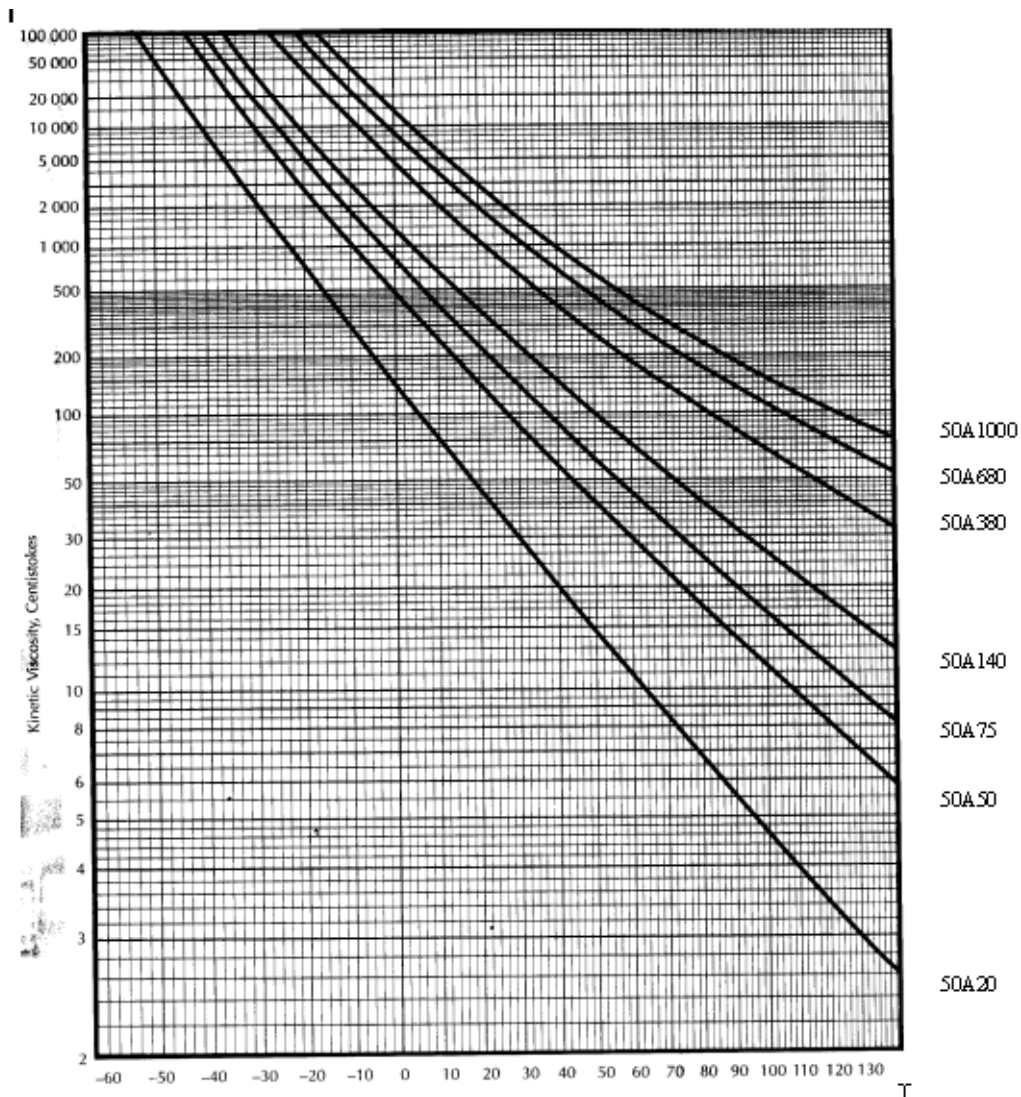
Isoprene (IIR) 2	Hardness Change	2
Chloroprene	% Linear Swell	7.5
	Hardness Change	-17
Silicone	% Linear Swell	0.2
	Hardness Change	-2

FDA COMPLIANCE

BREOX 50A 50 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.

	50A 50
173.310	
173.340	
175.105	•
176.200	
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.

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