

BREOX 50A 20

INTRODUCTION

BREOX 50A 20 is a water soluble monol initiated, ethylene oxide/propylene oxide co-polymer manufactured to provide a viscosity of 19 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 20
Viscosity	cSt @ 40°C	19
Viscosity	cSt @ 100°C	4.6
Viscosity Index	ASTM D 2270	165
Pour point, °C	ASTM D 97	-58
Refractive Index	N20D	1.46
Specific Gravity	20 / 20°C	1.02
Flash Point, °C	COC	183
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

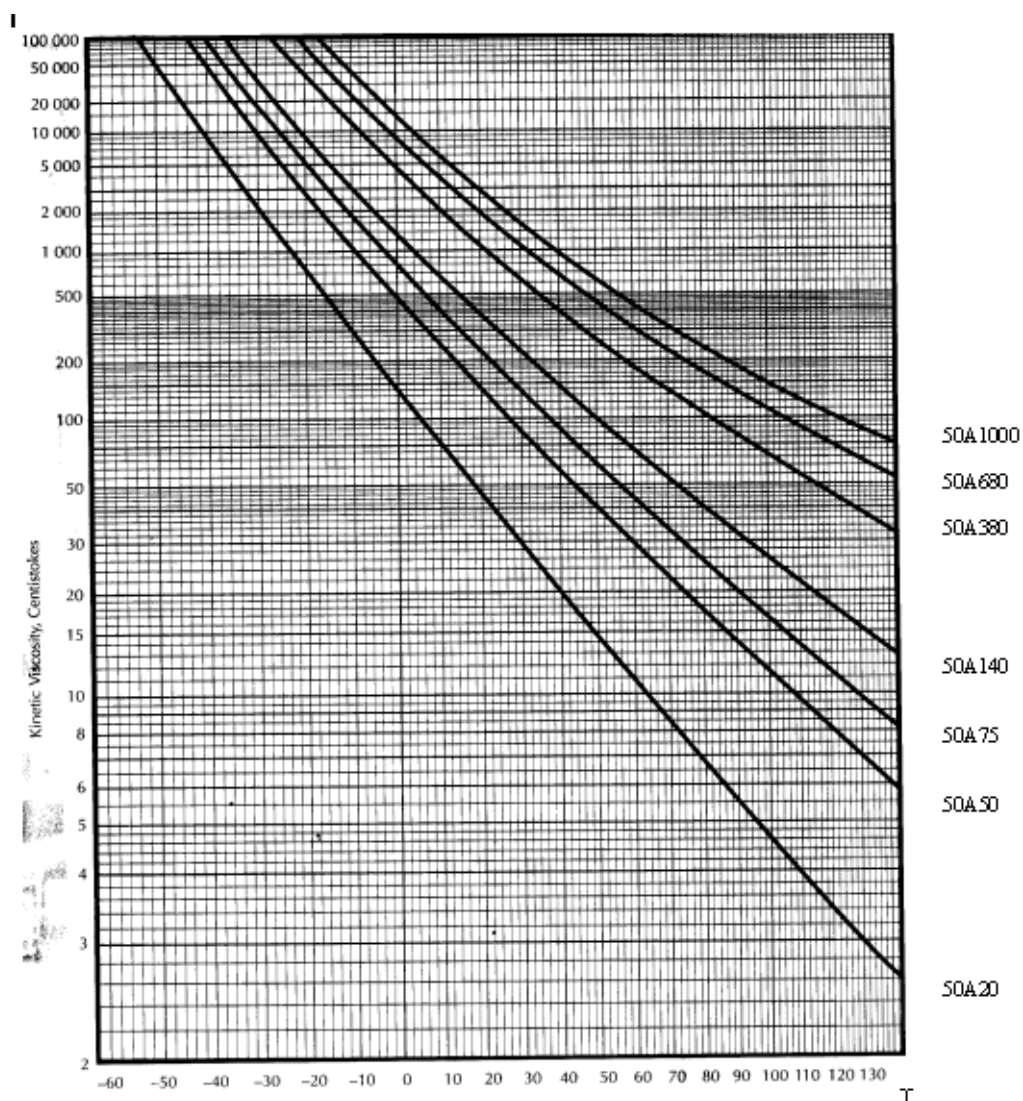
		50A 20
Natural	% Linear Swell	2.6
	Hardness Change	-8
Styrene Butadiene (SBR)	% Linear Swell	4
	Hardness Change	-11
Nitrile Butadiene(NBR)	% Linear Swell	6.5
	Hardness Change	-16
Isobutene Isoprene (IIR) 1	% Linear Swell	0.8
	Hardness Change	0
Isobutene	% Linear Swell	-1.2

Isoprene (IIR) 2	Hardness Change	2
Chloroprene	% Linear Swell	11.6
	Hardness Change	-2.8
Silicone	% Linear Swell	0.8
	Hardness Change	-3

FDA COMPLIANCE

BREOX 50A 20 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

VISCOSITY vs. TEMPERATURE BEHAVIOUR



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

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