

# BREOX 50A 20S

## INTRODUCTION

**BREOX 50A 20S** is a low cloud point synthetic 'glycol' polymer. When added to brine / polymer muds at c.a. 3 – 5% it gives excellent shale control performance, increased cutting hardness and marked improvement in whole mud dilution rates. Significant decrease in friction coefficient, filter cake thickness and fluid loss can also be seen with muds containing 50A 20S. Enhanced shale stabilization can be achieved with the use of potassium ions, although in most cases they are not required for an effective performance.

## TYPICAL PROPERTIES

Physical Attribute	Analysis Method	Value and Unit
Density @20°C	ASTM D 1298	1016kg/m <sup>3</sup>
Flash Point	ASTM D 92	>145°C
Pour Point	ASTM D 97	<-40°C
Colour	Pt/Co Scale	Colourless
Odour	-	Mild
Cloud Point (5% in brine)	ASTM D2500	
+ 0ppb KCl		55.6°C
+ 10ppb KCl		48.2°C
+ 25ppb KCl		29°C

## SALES SPECIFICATION

Physical Attribute	Analysis Method	Value and Unit
Appearance	-	Clear liquid, free of visible particles
Colour	Pt/Co scale	≤ 100Pt/Co
Density @ 20°C	ASTM D1298	1005 – 1025kg/m <sup>3</sup>
Viscosity @ 40°C	ASTM D 445	18 – 22cSt
Acid number	ASTM D974	≤ 0.1mg KOH/g
Water content	ASTM D1744	≤ 1.0%wt

## ENVIRONMENTAL INFORMATION

Test	Method	Value and Unit
Skeletonema Costatum	EC50	465mg/l
Acartia tonsa	LC 50 (48hr)	356mg/l
Corophium volutator	LC50 (10 d)	5,900mg/kg
Log Pow	(OECD 117)	0.353
Biodegradability	(OECD 301D)	76%
BOD	(5 day)	5.23mg O <sub>2</sub> /g

### Remarks

#### **Handling & Safety:**

A material Safety Data Sheet (MSDS) has been issued describing the health, safety and environmental characteristics of BREOX 50A 20S, together with handling precautions and emergency procedures. This must be consulted and fully understood before storage, handling and use.

#### **Storage:**

### Revision-No.

2.2-08.2004 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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