

BREOX FCC 93

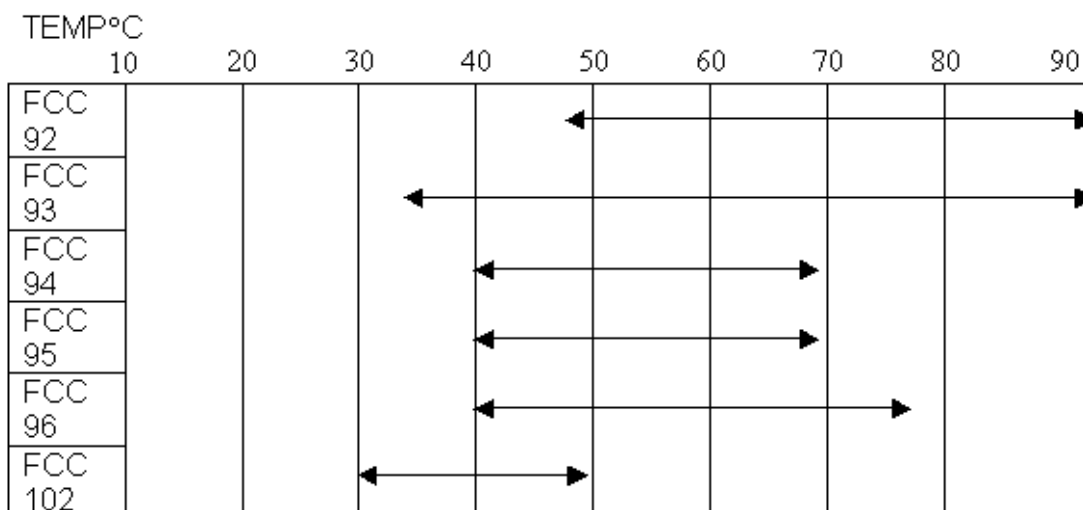
INTRODUCTION

The BREOX Sugar Processing range of foam control agents consists of 100% active polyalkylene glycols that have been specifically developed for the suppression of foam in the sugar-beet processing industry.

APPLICATION

BREOX FCC 93 demonstrates excellent stability over a wide pH range, ensuring their effectiveness throughout various stages of sugar beet processing such as, diffusion, liming and carbonation. The components of the polyalkylene glycols are of low polarity and as such, they are also suitable for use in refineries operating the Quentin process.

BREOX FCC 93 is individually designed to operate over specific temperature ranges, thus enabling effective foam control during the cooler transportation and washing stages, in process areas where localised temperature variation is a problem and at normal diffusion temperatures. Typical operating ranges are as follows:



FCC 93:	FCC 93 has been introduced into the BREOX range as a fully-formulated product operating over a wide temperature range. It may be easily blended with water to create low-cost formulations and will offer full protection against foam formation at all normal diffusion temperatures above 40°C.
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TYPICAL PROPERTIES

The typical values presented here are believed to be accurate, they should not however be considered to constitute a specification.

<i>Physical Attribute</i>	<i>Analysis Method</i>	<i>Value</i>
		<i>FCC 93</i>
Viscosity @40°C (cSt)	ASTM D 445	288
Density @20°C (kgm ⁻³)	ASTM D 1298	1040
Flash Point (°C) (COC)	ASTM D 92	>220
Cloud Point (°C) (1% aqueous)	ASTM D2500	40
Pour Point (°C)	ASTM D 97	-15
Operating range (°C)	-	34-100

DOSING & FORMULATION

BREOX FCC 93 may be either dosed directly into the system, typically at concentrations in the region of 25-100ppm, by using a micro-metering pump or alternatively can be formulated or further esterified, whilst maintaining high levels of performance. Formulations with water or fatty acids can create lower cost antifoams, with the resultant lower viscosities allowing easier dosing to the system. Such formulations require only simple agitation prior to use and can allow considerable savings to be made by the formulator.

Example of typical BREOX foam control agent formulation is:

Component	Blend A
	% w/w
BREOX FCC 93	50.00
BREOX FCC 92	
BREOX 50-A-380	
Fatty Acid	5.00
Deionised Water	45.00
Isopropanol	

PRODUCT COMPLIANCE

BREOX FCC 93 may be used as antifoams in sugar beet processing up to a maximum dosage level of 150 ppm, in full compliance with the Food and Drug Administration (FDA) Federal Food, Drug and Cosmetic Act and all applicable food additive regulations including 21 CFR § 173.340.

BREOX FCC 93 is Kosher Pareve (including Passover) certified.

Remarks

Handling & Safety:

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

Storage:

Revision-No.

2.4-08.2004 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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Hardley, Hythe, Southampton, SO45 3ZG, UK - Phone +44 (0) 2380 894666
- Fax +44 (0) 2380 234113

