

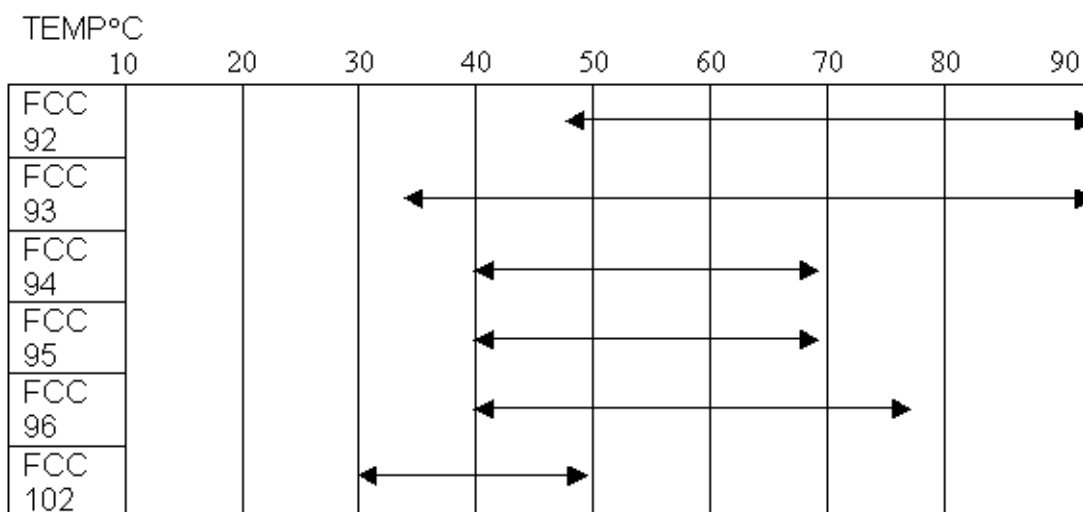
BREOX FCC 102

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 102 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 102:	Ideally suited to low temperature transport systems, esterification of FCC 102 will promote its' low temperature antifoam characteristics.
-----------------	--

TYPICAL PROPERTIES

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

Physical Attribute	Analysis Method	Value
		FCC 102
Viscosity @40°C (cSt)	ASTM D 445	121
Density @20°C (kgm ⁻³)	ASTM D 1298	1024
Flash Point (°C) (COC)	ASTM D 92	>220
Cloud Point (°C) (1% aqueous)	ASTM D2500	27
Pour Point (°C)	ASTM D 97	-24
Operating range (°C)	-	30-50

DOSING & FORMULATION

BREOX FCC 102 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.

PRODUCT COMPLIANCE

BREOX FCC 102 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 102 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.

3.3-08.2004 Effective August 17, 2004

The product can be stored for at least 2 years at ambient storage conditions and temperature without any deterioration.

All products in the text marked with an ® are trademarks of the Cognis group.

The information on product specifications provided herein is only binding to the extent confirmed by Cognis in a written Sales Agreement. COGNIS EXPRESSLY DISCLAIMS ANY RESPONSIBILITY FOR THE SUITABILITY OF THE PRODUCTS FOR ANY SPECIFIC OR PARTICULAR PURPOSES INTENDED BY THE USER. Suggestions for the use and application of the products and guide formulations are given for information purposes only and without commitment. Such suggestions do not release Cognis' customers from testing the products as to their suitability for the customer's intended processes and purposes. Cognis does not assume any liability or risk involved in the use of its products as the conditions of use are beyond its control. The user of the products is solely responsible for compliance with all laws and regulations applying to the use of the products, including intellectual property rights of third parties.

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

F_S

