

BREOX FCC-RANGE FOR PAPER PROCESSING

INTRODUCTION

The **BREOX** Paper Processing foam control agents consists of 100% active polyalkylene glycols that have been specifically developed to improve various aspects of paper pulp manufacturing. They are exceptional antifoams and defoamers in aqueous systems above 0°C either singularly, or as part of a formulation.

APPLICATION

BREOX FCC P18 and **P22** were developed primarily for the paper pulping and paper making industries. They may be used successfully as antifoams to reduce the amount of entrained air within a system, and as defoamers by the suppression of frothing.

BREOX FCC P18 and **P22** are generally used as a 100% concentrates but may be formulated with alcohols and/or fatty acids, whilst maintaining a high level of performance.

BREOX FCC P18 can be used in paper pulping applications and can be successfully used in both mechanical and acid pulping. It is recommended that **BREOX FCC P18** is used as a component of a blended, or emulsified, product with Silicones when used in Kraft Pulping as the product offers a synergistic advantage.

BREOX FCC P22 has particular application in the tissue paper industry. It is best used at operating temperatures above 15°C.

Both products are noted to provide the following advantages over more conventional antifoam methods,

- Maximum antifoam / defoaming efficiency at very low levels (ppm.)
- No discolouration, oil or grease spots.
- Excellent water dispersability.
- Effective and stable under extremes of pH.
- Easy handling and dosage.

Due to low cloud point characteristics both products may also be used for low temperature water applications such as the washing and transportation of vegetables. By deaerating the transport water with **BREOX FCC**, the vegetables are afforded better buoyancy and hence, a greater rate of transport can be achieved.

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 and Unit</i>	
		<i>FCC P18</i>	<i>FCC P22</i>
Viscosity @40°C	ASTM D 445	87cSt	350cSt
Density @20°C	ASTM D 1298	982kgm ³	1015kgm ³
Flash Point (COC)	ASTM D 92	>200°C	>200°C
Cloud Point (1% aqueous)	ASTM D2500	<0°C	12°C
Water Content	ASTM D1744	0.25%wt	<0.3%

BREOX FCC P18 and **P22** should be added continuously by means of a micro-metering pump to areas of high agitation to ensure optimum dispersion.

PRODUCT COMPLIANCE

FDA

BREOX FCC P18 may be used as an antifoam in processing root crop vegetables and fruits up to a maximum dosage level of 41ppm in the wash water and as a boiler water additive in food processing applications up to a maximum dosage level of 150ppm in the boiler water solution, 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 and § 173.310 respectively.

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.

1.5-04.2006 Effective April 3, 2006

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

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