

BREOX FCC P16B

INTRODUCTION

BREOX Foam Control Concentrate P16 is a non-ionic low foam polyalkylene glycol based surfactant. It is an exceptional antifoam and defoamer in aqueous systems above 30C, either alone or as part of a formulated product. **BREOX FCC P16** is a concentrated 100% active antifoam, developed specifically to improve all aspects of paper manufacturing and for application in the starch industry, but is suitable for a range of warm water applications.

APPLICATION

PAPER / PULP PROCESSING

Foam formation is a significant problem in the paper and starch industries, **BREOX FCC P16** is designed to work at the temperature range of 30-60°C within such processes. **BREOX FCC P16** complements the lower temperature product BREOX FCC P12 and the two may be easily blended to give a foam control agent with a broad operating temperature range. **BREOX FCC P16** is an excellent antifoam, which reduces the amount of entrained air in the system and an excellent defoamer, which controls frothing.

During paper production a variety of paper making additives can enhance foaming. The presence of de-inked waste stock will introduce residual soaps, inks and adhesives as foam-producing species. Foam due to coatings and starch are also easily broken by **BREOX FCC P16**, which is suitable for all paper making applications above 30°C.

Advantages of **BREOX FCC P16** over conventional products used to combat foam production during paper manufacture include;

- Maximum anti-foam / defoaming efficiency at very low levels (ppm).
- No discolouration, oil or grease spots.
- Excellent water dispersability.
- Effective and stable under extremes of pH.
- Liquid, therefore easy to handle and dose.

VEGETABLE PROCESSING

BREOX FCC P16 was primarily developed for the paper and starch industries however, it is found to have extensive application in a wide range of mid temperature, aqueous applications including potato processing, green vegetable processing and fruit processing.

The use of water during washing and transportation of vegetables from one production stage to another can cause components, such as starch for example, to build up as an aqueous solution. The natural foaming tendency of the resultant solution, in combination with high flow rates during processing can cause unacceptable foaming which can affect overall production and potentially reduce throughput if no foam control agents are used.

Due to mid range cloud point characteristics **BREOX FCC P16** offers superior anti-foam performance in mid temperature aqueous systems above 30C. This characteristic enables application of the product in the warm water processing stages of potatoes, green vegetables, fruit and shell fish such as, slicing, dicing and transport to the pre-cooking, blanching and cooling stages.

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 and Unit
Viscosity @40°C	ASTM D 445	252 cSt
Density	ASTM D 1298	1032 kg/m ³
Flash Point (COC)	ASTM D 92	>230°C
Cloud Point (1% aqueous)	ASTM D 2500	28-30°C
Pour Point	ASTM D 97	9°C
Colour	Pt/Co Scale	50 Pt/Co

BREOX FCC P16 may be used as a concentrate, may be formulated to form an emulsion or blended with a variety of fatty acids or alcohols. The concentrate should be added continuously by means of a micro-metering pump, into areas of high agitation so to ensure optimum dispersion of the product. Dosing points should ideally be as near as possible to where foam generation is most problematic.

PRODUCT COMPLIANCE

BREOX FCC P16 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 or a sugar processing antifoam up to a maximum dosage level of 150ppm in the boiler water solution/wash water, 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.

BREOX FCC P16 is also Kosher and Pareve (including Passover) certified.

Remarks

Handling & Safety:

A material Safety Data Sheet (MSDS) has been issued describing the health, safety and environmental characteristics of BREOX FCC P16 together with handling precautions and emergency procedures. This must be consulted and fully understood before storage, handling and use.

Storage:

Revision-No.

2.3-09.2006 Effective September 11, 2006

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

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