

Technical data sheet



Description

SC FOAM® is a high performance liquid foaming agent formulated with anionic surfactants in association with water soluble polymers. Once dispersed in air stream SC FOAM® gives highly lubricating and stable foams. SC FOAM® is a biodegradable foaming agent.

Applications

SC FOAM® is the product of choice for soil conditioning systems for Earth Pressure Balanced Shield tunnelling. It reduces friction and internal abrasively with less power consumption, easier waste transport operations and lower wear of mechanical components especially cutter heads.

Benefits

- Cost effective product as low concentrations are required for high foamability
- Performs in both fresh and brackish water.
- Prevents clay from sticking, plugging and clogging
- Fully compatible with our polymer product range SC GSTP, SC MUD, SC GUM, BENTOCRYL 86 to enhance properties of the generated foam.
- Fully compatible with all types of foam generating plants
- Readily biodegradable.
- Friendly for the environment

Physical properties

Appearance:	Clear Homogeneous liquid
Specific gravity:	1.02 – 1.04
pH:	7 - 8
Solubility:	Completely soluble in water

CLARIANT (SINGAPORE) PTE. LTD.
BU FUNCTIONAL MINERALS
BL ADSORBENTS
BUSINESS GROUP CIVIL ENGINEERING

1 International Business Park,
#07-01 The Synergy,
Singapore 609917
www.clariant.com

COPYRIGHT ©
CLARIANT INTERNATIONAL LTD 2012

EDITION
October 2016



Guidelines for use

▪ **Soil conditioning for EPBS tunnelling**

The dosage range of SC FOAM is 0.5 to 5% by volume of water i.e. 5 to 50 l/m³ of water for low permeability soil. SC GSTP and SC MUD are recommended to reinforce stability and lubricating properties to cope with water bearing and permeable formations. The foam properties can be adjusted by controlling the amount of air and foaming agent. The Foam Expansion Ratio (FER) usually lies between 5 and 20. Foam Injection Ratio (FIR) varies according to soil conditions and dictates the amount of soil excavated, commonly at 15 – 80%.

Packaging

200 kg plastic drums; 1000 kg IBC container

Storage

Keep the product in its original closed packaging above 0°C, shelf life is 12 months

Related Documents

MSDS & application sheets available on demand. Contact your CLARIANT technical representative for any further information or references.

This information corresponds to the present state of our knowledge and is intended as a general description of our products and their possible applications. Clariant makes no warranties, express or implied, as to the information's accuracy, adequacy, sufficiency or freedom from defect and assumes no liability in connection with any use of this information. Any user of this product is responsible for determining the suitability of Clariant's products for its particular application.* Nothing included in this information waives any of Clariant's General Terms and Conditions of Sale, which control unless it agrees otherwise in writing. Any existing intellectual/industrial property rights must be observed. Due to possible changes in our products and applicable national and international regulations and laws, the status of our products could change. Material Safety Data Sheets providing safety precautions, that should be observed when handling or storing Clariant products, are available upon request and are provided in compliance with applicable law. You should obtain and review the applicable Material Safety Data Sheet information before handling any of these products. For additional information, please contact Clariant.

® Trademark registered in many countries and owned by Clariant
© 2012 Clariant International Ltd, Rothausstrasse 61, 4132 Muttenz, Switzerland

