

**Construction Technologies
Civil Engineering, Drilling & Tunnelling**

FOAM T

FOAM T is a foaming agent composed of special mixture of anionic surfactants 100% biodegradable. it can be used in underground water, brackish water and hard water. In EPB TBM, foam is generated at the surface by mixing air from the compressor with the liquid **FOAM T** and water solution from the appropriate foam generator. It strongly increases the penetration rate, in many cases the drilling procedure is 2 to 3 times faster resulting in longer TBM-head life and enhanced rate of penetration.

Description

| | |
|------------------------------|-----------------------------|
| Aspect | Liquid |
| Density (kg/m ³) | 1.015-1.028 |
| pH 0.1% | 8 - 11 |
| Solubility | Completely soluble in water |
| T.O.C 0.1% (mg/L) | 45 - 80 |
| C.O.D. 0.1% (mg/L) | 250 - 350 |
| Biodegradability | Readily biodegradable |

Specific advantages and benefits

- **Soil range suited:** sandy and gravelly soils
- **Efficiency:** it produces high quality foam, even at low concentrations
- **Biodegradable:** rapidly biodegradable.
- **Versatility:** it performs well in all types of water (hard, salty, etc).
- **Cost Reducer:** it reduces water use and needs a lower pumping power

Application

Foaming agent for EPB TBM, in water well drilling, mining, for simple air drilling and stiff foam drilling by adding polymers (like our VINILMUD LT)

Packaging

- 25 kg plastic cans
- 200 kg plastic drums
- 1000 kg IBC containers

| | Type of soil | | | |
|---|----------------------|------------------------|-------------|-------------|
| | Properties | | Sand | Silt |
| Soil conditioning with FOAM AT | Foam concentration | Cf [%] | 1.4 – 1.6 | 1.7 – 1.9 |
| | Foam Expans. Ratio | FER | 13 - 15 | 9 – 11 |
| | Foam Injection Ratio | FIR [%] | 45 - 65 | 65 - 85 |
| | Treatment Ratio | TR [l/m ³] | 0.70 - 0.80 | 1.40 – 1.55 |
| | Volume of water/foam | [m ³] | 0.1 – 0.4 | 0.35 – 0.90 |
| Polymer additive VINILMUD LT | Treatment Ratio | TR [l/m ³] | 0.1 – 0.3 | 0.6 - 0.8 |

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