

Soil Conditioning Foam with improved Anti-Clogging Properties

## DESCRIPTION

TamSoil 281AC is a soil conditioning foam with anti-clogging properties specifically developed to be used on a tunnel boring machine (TBM). It acts as a soil conditioner for various types of soil conditions, especially clayey soils showing tendencies to cohesion problems as well as adhesion to metal surfaces. TamSoil 281AC gives the excavated soil the necessary plastic properties and reduces significantly soil stickiness at the cutterhead, working chamber and screw conveyor. TamSoil 281AC also creates a homogeneous and compressible spoil in order to reduce the cutterhead torque and secure a constant earth pressure in the working chamber during the excavating process.

## KEY BENEFITS

- › Very efficient mixing with the excavated soil, reducing cutter head torque
- › Reduces clay cohesion and adhesion effects
- › Improves spoil rheology

## TYPICAL APPLICATIONS

- › EPB tunnelling in clayey ground conditions
- › Soil conditioning
- › Change of rheological behaviour

## APPLICATION GUIDELINES

TamSoil 281AC is designed to create a stable foam when used on foam generators in tunnel boring machines. The foam concentration (cF), foam expansion rate (FER) and the foam injection rate (FIR) of TamSoil 281AC depends on the geology encountered during tunnelling and the cutter head design. However, the TamSoil 281AC typically requires a foam concentration ranging from 1.5% to 4%. Depending on the geological conditions, it might be recommended to add other TamSoil polymers, which can enhance the rheological behaviour of the soil further.

## TECHNICAL DATA

TamSoil 281AC	
Appearance	Brown liquid
Odour	None
Density (kg/dm <sup>3</sup> )	1.02 - 1.05
pH	10 -12
All at 20°C	

All technical data stated herein is based on tests carried out under laboratory conditions.

## PACKAGING

TamSoil 281AC is supplied in 1000 kg IBCs.

## STORAGE

TamSoil 281AC should be stored shaded in unopened, original packaging, preferably at 5 - 40°C. If these conditions are maintained and the product packaging is unopened, a shelf life of one year can be expected.

## HEALTH & SAFETY

TamSoil 281AC should only be used as directed. We always recommend that the Safety Data Sheet (SDS) is carefully read prior to application of the material. Our recommendations for protective equipment should be strictly adhered to for your personal protection. The Safety Data Sheet is available upon request from your local Normet representative.