

CETCO® HI-SWELL

API 13A, SECTION 11 SODIUM BENTONITE

DESCRIPTION

CETCO HI-SWELL is an easy mixing, high quality 200 mesh product made from naturally occurring sodium bentonite. CETCO HI-SWELL is made from the highest grade Australian sodium bentonite and it is designed for use in various civil engineering applications. CETCO HI-SWELL meets the performance criteria of the American Petroleum Institute (API) 13A, Section 11 specification.

RECOMMENDED USE

CETCO HI-SWELL is designed for use in various civil engineering applications including: backfill grouting for TBM projects, diaphragm walls, slurry walls/cut-off walls, piling, micro-tunnelling, pipe-jacking, general purpose grouting and similar civil construction work.

MIXING AND APPLICATION

Mixing ratios are based on the use of freshwater. Water purity will affect bentonite performance. For best results, acidic and hard make-up water should be pre-treated with SODA ASH to a pH of 8.5-9.5. Mixing is best accomplished by adding CETCO HI-SWELL slowly through a jet/hopper mixer.

PACKAGING

25 kg bag, 1200 kg bulka bags, or pneumatic tanker

GENERAL PROPERTIES

| Property | Typical Value |
|---------------------------------------|----------------------------|
| Bulk Density (tonnes/m ³) | ~0.9 mt/m ³ |
| Moisture | Max 13% |
| pH (6.25% solids) | 8 to 11 |
| Free Swell | Min 24 ml per 2 grams |
| Wet Screen Analysis | <2.5% on 75 um |
| Marsh Funnel Viscosity | (22.5 g/350 ml) Min 35 sec |
| Filtrate API (ml/30min) | Max 16 ml |

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