

CETCO HI-SWELL

API 13A, SECTION 11 SODIUM BENTONITE

DESCRIPTION

HI-SWELL is an easy mixing, high quality 200 mesh product made from naturally occurring sodium bentonite. 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 fresh-water. 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 multi-wall paper bags, 1200kg bulka bags or in bulk tipper or pneumatic tanker.

TYPICAL PHYSICAL PROPERTIES	
Bulk Density (tonnes / m ³)	Approx. 0.9
Specific Gravity	~2.5 g/cc
Moisture	Max 13%
pH (6.25% solids)	8 to 11
CEC (meq / 100g)	>75
Free Swell	Min 24 ml per 2 grams
Wet Screen Analysis	<2.5% on 75um
Marsh Funnel Viscosity (22.5g/350ml)	Min 35 sec
FILTRATE API (ml/30min)	Max 16 ml