

# CETCO® HI-SWELL

## API 13A, SECTION 19 (OCMA GRADE) 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 19 (OCMA grade) 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 <sup>3</sup> )	~0.9 mt/m <sup>3</sup>
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

Australia: +61 73719 3500 | [www.CETCO.com](http://www.CETCO.com)

UPDATED: FEBRUARY 2025

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