

Rheogel® L

Bentonite Microparticle

Rheogel® L is a sodium modified bentonite clay pigment supplied as a free flowing powder.



Chemical:

Sodium montmorillonite form of the smectite trioctahedral swelling clays.

Typical chemical analysis (dry basis):

Silica (total)	52.4%
Crystalline Silica	<5%
Aluminium Oxide	15.6%
Ferric Oxide	12.1%
Calcium Oxide	1.8%
Magnesium Oxide	2.7%
Sodium Oxide	2.2%

Typical properties:

Fineness

Residue +75µm sieve (ISO 787/7) 0.7%

Rheology (API methods):

- Swelling power (BP) 1400%
 - Gel formation (BP) 99.5%
- To give apparent viscosity of 15 cP: 6.5 g/100ml
- At apparent viscosity of 15 cps: Yield 90 bbls/ton
US16 kL/tonne

Gel strength:

- Initial gel: 15 lb/100ft³
7 g/100ml
 - 10 min gel: 25lb/100ft³
12 g/100ml
- Moisture (80 °C), when packed 10%
- Loose bulk density (ISO 787/11) 0.8 g/ml
- Packed bulk density (ISO 787/11) 0.9 g/ml
- pH value (ISO 787/9) 10
- Specific Gravity 2.3 g/ml

Applications:

Drilling, grouting, civil and geotechnical. Pond, canal and dam lining.

Benefits:

- Superior engineering drilling grade bentonite
- Provides low chloride concentrations
- Enhances drilling fluid viscosity and gel strength
- Performs over a wide pH range
- Provides a suspension of high initial viscosity and gel strengths
- Contains no VOC or surfactant components to harm the environment
- Available in semi-bulk bag and bulk silo systems for ease of handling and safety.

Application and storage:

Recommended slurry concentrations:

- Slurry 0.25 - 4.5% max.

Recommended storage periods:

- Slurry 1 month
- Dry bentonite up to 5 years
- Storage of bentonite should be in a cool, dry place.

Production plant:

17-35 Bridge Street, Coalgate, Canterbury 7673, New Zealand.

Shipping & handling:

Rheogel® L is supplied in one tonne lots, palletized and shrink wrapped in either 1 tonne bulk or 25kg polypropylene bags.

In accordance with good industrial practice, handle with care and prevent contamination of the environment. Avoid dust formation and ignition sources. Dry bentonite spills should be swept or vacuumed. Bentonite slurry spills should be contained with an inert material and disposed of in a proper manner.

FOR INDUSTRIAL USE ONLY.

Health & safety:

This product has a low order of toxicity, and no special precautions are necessary in handling other than standard industrial protection. Detailed information on the product(s) described in this leaflet can be found in our relevant Health and Safety Information (Material Safety Data Sheet).

Registration:

Rheogel®.

Important:

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