



ENVIROGEL® 12

Product Information

Description

ENVIROGEL® 12 is a non-treated high swelling sodium bentonite in granular form. It is specifically processed for soil/bentonite membranes installed where low permeability liners or caps are desired. Though appropriate in most soil types, the granular character of **ENVIROGEL® 12** is particularly effective when blended with sandy clays and silty sands where the broad spectrum of particle sizes fills irregular void spaces inherent in these soils.

Characteristics

Typical Sieve Analysis

Sieve Size	% Retained
8	0.6
20	34.78
100	49.64
200	9.66
Pan	5.03

Processed Density:
66.0 ± 4.0 lb/ft³

Application

ENVIROGEL® 12 is easily applied through a drop spreader for in-situ application, or can be preblended with soil in a pugmill operation. Its granular form produces less dust during spreading than powder materials. Typical addition rates will range from 3% to 10% depending upon base soil characteristics.

Suggested Specifications

- 2.1 The bentonite supplied as a soil sealant shall be high-swelling sodium montmorillonite clay referred to as Wyoming Bentonite or Sodium Bentonite. The bentonite shall be **ENVIROGEL® 12** as manufactured by Wyo-Ben, Inc. or an equal approved by the engineer prior to bid.
- 2.2 High swelling is defined as the ability of 2 grams of bentonite, when mechanically reduced to a minus 100 mesh, to swell in water to an apparent volume of 16 ccs or more when added a little at a time to 100 ccs of distilled water contained in a graduated cylinder.
- 2.3 The colloid content of the bentonite shall exceed 70% and is measured by evaporating and weighing the suspended portion from a 2% distilled water solution after 24 hours of sedimentation.
- 2.4 Dry fineness of the soil sealant shall be:
97% minimum passing 8 mesh.

Packaging

ENVIROGEL® 12 is available in bulk, both truck and rail, bulk sacks containing approximately 3,000 pounds each or 50 pound multi-walled paper bags, palletized for easy handling. **ENVIROGEL® 12** can be transferred by either pneumatic or mechanical conveyance systems.