



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 |
| 10 | 3.1 |
| 16 | 22.5 |
| 20 | 13.7 |
| 60 | 2.8 |
| 100 | 8.1 |
| 200 | 4.6 |

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.