



SODIUM BENTONITE CLAY LAYER (GCL)

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- Storage areas of solid and hazardous waste
- Ponds, Pools
- Irrigation and Water Delivery Channels
- Waterproofing of Foundation
- Dams
- Flood Walls
- Landslide Prevention and Similar Ground Improvement

**SODIUM BENTONITE
CLAY LAYER**



Geosynthetic Barrier with Enhanced Protection Capacity

Sodium bentonite clay layer is used as a geosynthetic barrier because of its enhanced waterproofing capacity. It protects the structure and the environment by avoiding unwanted gas leak, artesian water and waste water. Chrystal structure of clay minerals inside Sodium Bentonite Clay Layer swells by preserving water molecules and avoids leaking. It is preferred and widely used in various application fields because of this feature.

Because of the special clay component in Sodium bentonite clay layer, it is between woven and non-woven geo-textile. Woven geotextile under granules and un-woven geotextile above granules are united through cross sewing and this structure avoids the leak of clay granules. The material consists of equal amount of bentonite granule with same thickness per cm² and this creates an equal and high density waterproof barrier all over the surface thanks to the high quality of the homogeneous structure.

As a result of the propylene geotextile in the structure of sodium bentonite clay layer, it is resistant to the chemical waste water. Since the material includes geotextile, applications made with geomembrane create a protection layer for geomembrane.

Sodium bentonite clay layer is laminated with polyethylene geomembrane and manufactures as composite.