



BentoShield®

GEOSYNTHETIC CLAY LINERS



ISO 9001
BUREAU VERITAS
Certification



BENTOSHIELD 5000HG TECHNICAL PROPERTIES

GEOCOMPOSITE

Mass per unit area⁽¹⁾ ASTM 5993 / EN 14196	5000 g/m²
Permeability ASTM D 5887	3,5x 10⁻¹¹ m/sec
Index flux ASTM D 5887	7,4 x 10⁻⁹ m³/sec-m²
Tensile Strength ASTM D 4595 / EN ISO 10319	> 20 kN/m / L way > 15 kN/m / X way
Elongation at break EN ISO 10319	18 %
Peel strength EN ISO 10319	> 65 N/m

BENTONITE LAYER

Free swell ASTM D 5890	> 31 ml/2g
Fluid loss ASTM D 5891	< 15 ml
Montmorillonite Content XRD Analysis	98 %

GEOTEXTILE LAYER

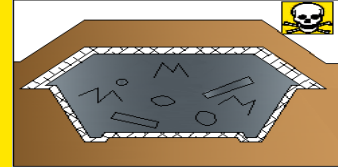
Non woven - mass/unit area ASTM D 5261 / EN ISO 9864	200 g/sq.m
Woven - mass/unit area ASTM D 5261 / EN ISO 9864	110 g/sq.m

⁽¹⁾ min. weight of sodium bentonite with 10 % moisture content.

The values in the table are achieved in GEOMAS laboratories and accredited testing institutes by following the ASTM Standards and GEOMAS Quality Plan.

APPLICATIONS

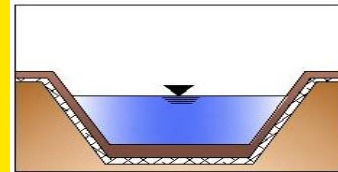
SOLID WASTE



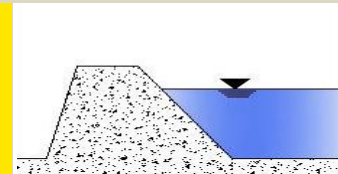
LIQUID WASTE



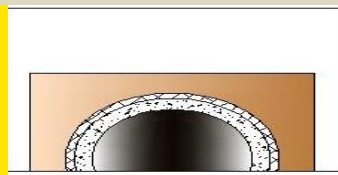
CANALS



RESERVOIRS
& DAMS



TUNNELS
& SUBWAYS



DIMENSIONS

Width 5m
Length 20 m, 40m, 45m,



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