



# BentoShield®

## GEOSYNTHETIC CLAY LINERS



### BENTOSHIELD® SMAX TECHNICAL PROPERTIES

#### GEOCOMPOSITE

<b>Mass per unit area<sup>(1)</sup></b> ASTM 5993 / EN 14196	5000 g/m <sup>2</sup>
<b>Permeability</b> ASTM D 5887	3,0x 10 <sup>-11</sup> m/sec
<b>Index flux</b> ASTM D 5887	5,15 x 10 <sup>-9</sup> m <sup>3</sup> /sec-m <sup>2</sup>
<b>Tensile Strength</b> ASTM D 4595 / EN ISO 10319	> 15 kN/m
<b>Elongation at break</b> EN ISO 10319	18 %
<b>Peel strength</b> EN ISO 10319	> 650 N/m
<b>CBR puncture force</b> EN ISO 12236	1860 N

#### BENTONITE LAYER

<b>Free swell</b> ASTM D 5890	> 24 ml/2g
<b>Fluid loss</b> ASTM D 5891	< 18 ml
<b>Mont. Content</b> XRay	< 80 %

#### GEOTEXTILE LAYERS

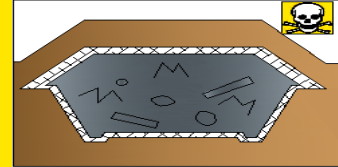
<b>Non woven - mass/unit area</b> ASTM D 5261 / EN ISO 9864	200 g/sq.m
<b>Non woven - mass/unit area</b> ASTM D 5261 / EN ISO 9864	200 g/sq.m

<sup>(1)</sup> 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

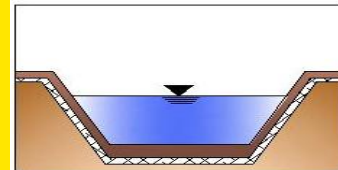
SOLID WASTE



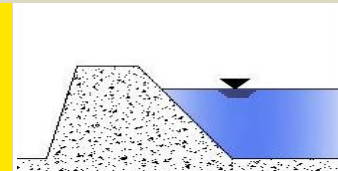
LIQUID WASTE



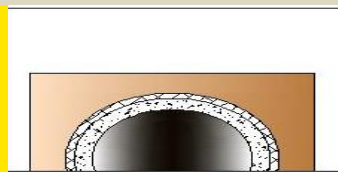
CANALS



RESERVOIRS & DAMS



TUNNELS & SUBWAYS



#### DIMENSIONS

Width 5m, 2.5m  
Length 20 m, 40m, 45m,



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