

HUESKER NaBento® (GCL) DATA SHEET

GEOSYNTHETIC CLAY LINER

PRODUCT			L-N	RL-N	RL-C	
MECHANICAL	TEST	UNIT				
Geotextile carrier	--	--	Woven Polypropylene	--	--	
Geotextile carrier with high friction surface coating			--	Woven Polypropylene	Woven Polypropylene	
Sealing Layer weight Sodium bentonite with 'aero' fleece reinforcement	--	g/m ²	~ 4,500 ~ 60	~ 4,500 ~ 60	~ 10,000 ~ 60	
Total GCL weight	EN ISO 9864	g/m ²	~ 4,800	~ 5,500	~ 11,000	
Thickness in a dry condition	EN ISO 9863-1	mm	5.0	8.0	≥ 11	
Ultimate tensile strength Longitudinal Transverse	EN ISO 10.319	kN/m	≥ 22 ≥ 30	≥ 22 ≥ 30	≥ 22 ≥ 30	
Strain @ nominal tensile strength Longitudinal Transversal	EN ISO 10.319	%	≤ 25 ≤ 25	≤ 25 ≤ 25	≤ 25 ≤ 25	
CBR puncture resistance (X)	EN ISO 12236	N	≤ 3,500	≤ 3,500	≤ 3,500	
Permeability coeff. (K _v) where i = 30 and surcharge of 30kPa.	DIN 18130 T1	m/s	≤ 5 x 10 ⁻¹¹	≤ 5 x 10 ⁻¹¹	≤ 7 x 10 ⁻¹¹	
Tolerances All values are mean values unless otherwise stated	--	%	--	--	± 10	
PACKAGING						
Roll width x length Roll width x length	--	m	3.60 x 40 5.10 x 40	3.60 x 40 5.10 x 40	-- 5.10 x 20	

PRODUCT NOTES

- The information listed in this data sheet is subject to periodic review and could be changed without notice.
- Nabento® geosynthetic clay liner is manufactured according to ISO 9001 quality assurance procedures.
- Revised 02/2008

NaBento® is a laminated geotextile composite with bentonite, a highly water-swelling clay, contained within its geotextile supporting layers. The clay can be either sodium or calcium bentonite. The components are sewn together to provide composite action and high internal shear strength. The supporting geotextiles are designed and manufactured to act together with the bentonite.

NaBento® provides a long-term sealing layer with a high settlement capacity, high internal shear strength and resistance to erosion.

NaBento® can be engineered and manufactured to suit a particular application, i.e.; the type and quantity of bentonite can be specified as well as the particular synthetic raw materials and ancillary fittings.

A special coating can be applied to the external surfaces of NaBento® to give better protection against desiccation and increase the local shear strength with the adjacent soils or other contact materials.

Applications:

Sealing of landfill sites
Water barriers in embankments and dams

Groundwater protection in road and railway construction
Sealing of lagoons, watercourses and hydraulic structures

The information contained herein is furnished without charge or obligation.

No responsibility is accepted for any change in product properties due to environmental influences and or improper application or handling.

