VABREN

Geosynthetic Clay Liner

GCL-NP / GCL-OF / GCL-AH - Technical specification reference

Requirement values transcribed from the supplied specification schedule labelled JG/T 193-2006. Prepared 15 October 2026. This document is not a batch test report or a certificate.

SPECIFICATION REQUIREMENTS

Property / unit	GCL-NP	GCL-OF	GCL-AH
GCL mass per unit area g/m²	≥4000 and not less than the specified value	≥4000 and not less than the specified value	≥4000 and not less than the specified value
Bentonite swell index mL/2 g	≥24	≥24	≥24
Methylene blue absorption g/100 g	≥30	≥30	≥30
Tensile strength N/100 mm	≥600	≥700	≥600
Elongation at maximum load %	≥10	≥10	≥8
Peel strength: nonwoven / woven geotextiles N/100 mm	≥40	≥40	-
Peel strength: PE film / nonwoven geotextile N/100 mm	-	≥30	-
Hydraulic conductivity m/s	$\leq 5.0 \times 10^{-11}$	$\leq 5.0 \times 10^{-12}$	$\leq 5.0 \times 10^{-12}$
Hydrostatic pressure resistance MPa / h	0.4 MPa, 1 h, no leakage	0.6 MPa, 1 h, no leakage	0.6 MPa, 1 h, no leakage
Fluid loss mL	≤18	≤18	≤18
Bentonite durability mL/2 g	≥20	≥20	≥20

ORDER AND DOCUMENT CONFIRMATION

A dash means no value is stated in the supplied schedule; it does not mean zero. Mass per unit area refers to the GCL composite, not bentonite-only mass. The table does not establish that a particular batch meets these requirements.

Confirm the selected model and actual construction, geotextile and bentonite mass, roll dimensions, quantity, application and destination. Provide the project specification and required test/acceptance documents. Test procedures and the full standard clauses must be checked for the selected project. No ASTM method or compliance is inferred.

Standard record: JG/T 193-2006, Sodium bentonite geosynthetic clay liner. The official National Public Service Platform for Standards Information lists it as current and recommended (checked 15 October 2026). View official standard record.

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