

SWELLTIGHT® BENTONITE GRANULES

SWELLTIGHT® Bentonite Granules expand on contact with water, creating a low-permeability, self-sealing natural geotechnical barrier.

Widely used to control groundwater ingress, the granules can swell up to 15 times their original volume, making them ideal for sealing ground loops, reducing seepage, and stabilising excavations.



Product Information

Colour	Light grey
Bulk density	1.05 - 1.10 g/ml
Specific gravity	2.2 - 2.5 g/ml
Passing 0.5 mm	1%
Passing 1.0 mm	6%
Passing 4.75 mm	80%
Passing 6 mm	97%

Composition (By XRD Analysis)

Montmorillonite clay	Major (ca. 65%)
Calcite	Some
Feldspar	Minor
Alpha quartz	Minor

Typical Performance Characteristics

Free swelling volume	>500% (after 48 hrs)
Contained swelling volume	>50% (after 48 hrs)
Settling velocity	15 cm/sec
Swelling onset	15 minutes

Typical Analysis (%)

SiO ₂	K ₂ O	MgO	TiO ₂	Fe ₂ O ₃	Na ₂ O	CaO	Al ₂ O ₃	Loss on ignition
65.3	1.7	3.35	0.63	6.36	4.9	1.01	11.7	5.7