

Multicem

Ground Stabilization

Multicem is used to stabilize masses of clay and soil and provides a pH buffer for sulphide soils. Other common areas of use are soil reinforcement/stabilization of road- and railway banks, slopes, excavations, and sewer pipelines. Multicem consists of 50 % cement and 50 % CKD (Cement Kiln Dust). CKD is a fine powder from the cement kiln which mainly consists of burnt lime and other calcined minerals. The composition of the product may vary and on occasion deviate from values given in the table.

Property	Normal range of variation	Average value for Multicem Slite
Alkalís, Na ₂ O _{ekv} (%)	1-7	3
Free lime, CaO (%)	7-20	14
Calcium oxide, CaO _{tot}	40-70	58
Chlorides, Cl ⁻ (%)	0-8	4
Magnesium oxide, MgO (%)	1-3	2
Silicon oxide, SiO ₂ (%)	10-20	15
Sulphate, SO ₃ (%)	2-12	6
Particle size distribution ¹	<24 µm (%)	20-80
	<32 µm (%)	30-90
	>64 µm (%)	0-40
	>90 µm (%)	0-25
Compact density (kg/m ³)	2800-3100	2950
Bulk density (kg/m ³)	900-1200	1050

¹d_{max}=1 mm