



CALCIUM ALUMINATE CEMENT

PRODUCT: CAL AL 70
TYPE: HIGH PURITY 70% ALUMINA CEMENT

CHEMICAL ANALYSIS, %

	RANGE	TYPICAL VALUE	TEST PROCEDURE
Al ₂ O ₃	68.5 – 71	69.5	BIS 12107 Part 3
Fe ₂ O ₃	0.1 – 0.3	0.24	BIS 12107 Part 6
CaO	27.5 – 30	28.3	BIS 4032

PHYSICAL PROPERTIES

	RANGE	TYPICAL VALUE	TEST PROCEDURE
Specific Surface Area (cm ² /g)	3600 – 4100	3750	BIS 4031 (Part – 2)
CCS after 1 day, kg/cm ²	350 – 515	425	ACE procedure TP/042 based on EN 196 -1
MOR after 1 day, kg/cm ²	55 – 80	68	ACE procedure TP/042 based on EN 196 -1
Setting Time, Minutes			ACE procedure TP/042 based on EN 196 -1
Initial	140 – 220	180	
Final	195 – 280	240	
Flow Property, % T ₁₅	50 – 125	85	ACE procedure TP/042 based on EN 196 -1

THERMAL PROPERTIES

	RANGE	TYPICAL VALUE	TEST PROCEDURE
Refractoriness, Orton / °C		20 / 1564	BIS 1528 Part 1

MINERALOGICAL PROPERTIES

	RANGE	TYPICAL VALUE	TEST PROCEDURE
Mineralogy Major phase Minor phase	CA, CA ₂ – A, C ₁₂ A ₇		X-ray Diffractometry

Packaging: 25 kg bags

Delivery State: Dry

Storage Life: Best till 9 months from the date of production, if stored in proper condition.

Note:

- (1) The data are current production averages. They can not be used as limits for specification.

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