



**CALCIUM ALUMINATE CEMENT**

**PRODUCT:** CALUNDUM  
**TYPE:** MEDIUM PURITY 45% ALUMINA CEMENT

**CHEMICAL ANALYSIS, %**

	RANGE	TYPICAL VALUE	TEST PROCEDURE
Al <sub>2</sub> O <sub>3</sub>	45 – 48	46.7	BIS 12107 Part 3
Fe <sub>2</sub> O <sub>3</sub>	5.5 – 8	6.7	BIS 12107 Part 6
CaO	31.6 – 33.8	32.6	BIS 4032

**PHYSICAL PROPERTIES**

	RANGE	TYPICAL VALUE	TEST PROCEDURE
Specific Surface Area, (cm <sup>2</sup> /g)	3000 – 3500	3200	BIS 4031(Part – 2)
CCS after 1 day, kg / cm <sup>2</sup>	130 – 200	155	ACE procedure TP/042 based on EN 196 -1
MOR after 1 day, kg/cm <sup>2</sup>	25 – 45	34	ACE procedure TP/042 based on EN 196 -1
Setting Time, Minutes			ACE procedure TP/042 based on EN 196 -1
Initial	80 – 175	115	
Final	130 – 250	175	
Flow Property, %			ACE procedure TP/042 based on EN 196 -1
T <sub>15</sub>	7.5 – 35	20	

**THERMAL PROPERTIES**

	RANGE	TYPICAL VALUE	TEST PROCEDURE
Refractoriness, Orton / °C		13 / 1349	BIS 1528 Part 1

**MINERALOGICAL PROPERTIES**

	RANGE	TYPICAL VALUE	TEST PROCEDURE
Mineralogy			X-ray Diffractometry
Major phase	CA		
Minor phase	C <sub>2</sub> AS, C <sub>4</sub> AF, C <sub>12</sub> A <sub>7</sub>		

**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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