

ace calderys

HIGH PURITY PATCHING MATERIAL

PRODUCT: WHYTPATCH K  
 TYPE: 55% ALUMINA PATCHING / TROWELLING MATERIAL  
 NATURE OF BOND: HYDRAULIC  
 INSTALLATION: TROWELLING

### GENERAL PROPERTIES

MAX. SERVICE TEMPERATURE: 1450 °C  
 MAXIMUM GRAIN SIZE: 3 mm  
 WATER REQUIRED FOR TROWELLING CONSISTENCY: 14.0 – 17.0 %

### CHEMICAL ANALYSIS, %

	RANGE	TYPICAL VALUE	TEST PROCEDURE
Al <sub>2</sub> O <sub>3</sub>	53.00 – 58.00	55.0	BIS 12107 Part 3
CaO	4.0 – 5.0	4.4	ASTM C 573
Fe <sub>2</sub> O <sub>3</sub>	1.2 – 1.6	1.3	BIS 12107 Part 6

### PHYSICAL PROPERTIES

	RANGE	TYPICAL VALUE	TEST PROCEDURE
Dry density, g / cc after drying at 110 °C / 24 hrs	2.05 – 2.15	2.10	BIS 10570
CCS, kg/cm <sup>2</sup> after drying at 110 °C / 24 hrs	225 – 275	250	BIS 10570
after heating at 1100 °C / 3 hrs	120 – 160	140	BIS 10570
after heating at 1450 °C / 3 hrs	400 – 500	460	BIS 10570
% Retained on maximum size	0 – 5	1.0	BIS 1528 Part 14

### THERMAL PROPERTIES

	RANGE	TYPICAL VALUE	TEST PROCEDURE
Refractoriness, Orton / °C		+ 29 / + 1659	BIS 1528 Part 1
PLC, % after heating at 1100 °C / 3 hrs	(- 0.40) to (+ 0.20)	- 0.15	BIS 10570
after heating at 1450 °C / 3 hrs	(- 1.8) to (- 2.5)	- 2.20	BIS 10570



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