

TECHNICAL DATA/PRODUCT DEFINITION SHEET

An expanded fireclay grog produced from suitably prepared virgin fireclay, which is sintered at high temperature on a moving hearth, to form a rigid, sponge-like ceramic mass. After cooling, the sinter is crushed and graded into granular sizes to suit customer requirements.

TYPICAL GRANULOMETRY OF STANDARD GRAIN SIZES TO SPECIFICATION (Other sizes by special arrangement)

Size (mm)	10-5mm	5-0mm	5-2mm	2-0mm	ANALYSIS %
10	85-100	100	100	-	SiO ₂ 56-64
5.0	0-10	90-100	90-100	100	TiO ₂ 0.8-1.45
2.36	0-5	50-85	10-35	85-100	Al ₂ O ₃ 26-32
1.18	-	25-60	0-10	40-80	Fe ₂ O ₃ 2-5.0
0.600	-	10-40	0-5	20-50	CaO 0.3-0.6
0.300	-	5-20	-	10-35	MgO 0.8-3.0
0.150	-	0-15	-	5-20	K ₂ O 1.5-3.0
					Na ₂ O 0.03-1.0
					Ign. Loss 4% Max
Loose Density	650-750	850-1050	650-850	1000-1150	Kgs/Cu.M

Size (mm)	2-0.6mm	-600mm	ANALYSIS %
6.3	-	-	SiO ₂ 56-64
5	-	-	TiO ₂ 0.8-1.45
4	-	-	Al ₂ O ₃ 26-32
3.15	-	-	Fe ₂ O ₃ 2-5.0
2.36	100	-	CaO 0.3-0.6
1.70	-	-	MgO 0.8-3.0
1.18	45-75	95 - 100	K ₂ O 1.5-3.0
0.600	5-20	85-100	Na ₂ O 0.03-1.0
0.300	0-10	40-70	Ign. Loss 4% Max
0.150	-	10-35	
0.053	-	0-10	
Loose Density	750-850	925-1025	Kgs/Cu.M

GRAIN DENSITY: 1.5-1.65 g/cc

PYROMETRIC CONE EQUIVALENT: P.C.E Cone 23-26 1610-1645°C

IGNITION LOSS: fractions finer than 2-0mm containing dust can have a value up to 4% due to partially calcined clay content, a function of the sintering process used. Larger sizes than 2-0mm generally have values less than 2.5%.

REFRACTORY INSULATING CONCRETES: Made with _____ and high Alumina cements have a valuable service performance up to at least 1300°C.

HEALTH & SAFETY: _____ a porous ceramic product, which is fire resisting, non toxic, heat insulating and non injurious to health. However, when working in unventilated areas with fine grain sizes, a mask should be worn to avoid inhalation of dust.

MS12a

**This information is offered for guidance purposes only.
No warranty is implied or given.**