

# Materials Specifications Guide

## Precision Ceramics

Quality Name	Product Group	Apparent Porosity (%)	Bulk Density (g/ml)	CCS (MN/m <sup>2</sup> )	CHEMICAL ANALYSIS (%)							
					SiO <sub>2</sub>	Fe <sub>2</sub> O <sub>3</sub>	Al <sub>2</sub> O <sub>3</sub>	ZrO <sub>2</sub>	Alks	MgO	Cr <sub>2</sub> O <sub>3</sub>	CaO
AM2	B,F	23.0	2.30	45.0	31.0	0.9	65.5	-	1.0	-	-	0.04
AM91C	F,G	19.5	2.96	60.0	8.5	0.05	87.5	3.6	0.07	-	-	0.02
ANC	A,B	17.0	3.20	40.0	2.8	12.5	7.5	-	-	54.0	22.2	0.65
AZ4	G	24.5	3.00	50.0	8.5	0.06	78.0	12.5	0.02	-	-	0.03
BB45	E	22.0	2.22	75.0	40.0	0.95	55.4	-	1.0	-	-	0.20
CAL	F	21.0	3.10	65.0	1.6	0.1	94.0	-	0.15	-	4.4	0.02
FA2	F	21.5	3.05	60.0	2.6	0.06	97.5	-	0.16	-	-	0.01
FM5	F,G	22.0	2.52	35.0	20.5	0.05	79.0	-	0.2	-	-	0.02
GUC	A,B	16.5	3.21	35.0	2.9	10.2	6.5	-	-	56.0	23.7	0.80
MSA3	A	17.5	3.05	120.0	1.3	0.05	93.2	-	0.26	4.5	-	0.20
M3	F	18.5	2.85	30.0	1.8	0.06	3.0	-	2.01	93.0	-	2.00
S1F	B,C,D,E,G	23.5	2.15	35.0	41.0	0.7	55.5	-	1.6	-	-	0.04
SA1	A	17.0	3.10	65.0	1.5	0.05	98.0	-	0.3	-	-	0.04
SGP	C	20.0	2.27	60.0	41.5	0.7	56.0	-	1.5	-	-	0.05
SILLS	D	25.0	2.12	35.0	40.5	0.7	57.0	-	1.5	-	-	0.05
SK60C	E	18.5	2.48	55.0	34.0	0.8	64.5	-	0.3	-	-	0.14
SMC	B	20.0	2.30	40.0	43.0	0.75	54.5	-	0.1	-	-	0.05
SSM6	E	19.0	2.56	60.0	20.5	0.35	78.0	-	0.65	-	-	0.03
TA1	A,G	20.5	2.97	70.0	2.4	0.07	97.0	-	0.3	-	-	0.06
TA4	G	21.0	2.95	30.0	0.4	0.05	98.3	-	0.2	-	-	0.95
VCS	E	20.5	2.28	45.0	41.0	1.0	55.0	-	1.6	-	-	0.05
VS3	G	19.0	2.92	55.0	7.5	0.08	92.0	-	0.27	-	-	0.03
Z11	F	19.5	4.60	30.0	0.2	0.05	0.4	94.9	-	-	-	4.00
Z7C	E	21.0	2.94	60.0	17.0	0.1	52.0	30.0	0.17	-	-	0.05
Z7G	C,D,E	18.0	3.00	80.0	17.2	0.1	53.0	28.8	0.17	-	-	0.05
ZZZ	D,E	20.5	3.00	90.0	12.6	0.18	73.0	13.2	0.2	-	-	0.04

### PRODUCT GROUPS

- A - STEEL INDUSTRY
- B - SPECIAL ALLOYS AND NON FERROUS
- C - GLASS STUDIO
- D - GLASS EXPENDABLES
- E - GLASS FOREHEARTH AND BOTTOM BLOCKS
- F - INDUCTION FURNACE CRUCIBLES AND RAMMING
- G - OTHER APPLICATIONS

Note: The values shown are typical for the products and are given in good faith but should not be taken as a guarantee nor do they form part of a specification. Actual values can vary dependant on the availability of raw materials.

