

# PRODUCT DATA

CUMI have developed a large range of materials to service the Glass market and have a proven track record of successful supply in India and Asia.

As part of the venture with Anderman the following materials have been introduced and productionised at CUMI. These materials have a proven track record For applications in Europe, USA and Asia.

The technical capability within CUMI and Anderman will enable us to tailor or introduce new variants to meet the market requirement. We are happy to discuss your needs.

	AS 1	AZ 7	ASSM 6	AS 6	A ZZZ	AS m11
Product Definition	Sillimanite	Fused Zirconia	Sintered Mullite	Mid Alumina	Zircon Alumina	Alumina mullite
SiO2	41	17.00	20.50	40.50	12.60	8
TiO2	0.45	0.10	0.10	0.50	0.15	0.05
Fe2O3	0.30	0.10	0.35	1.00	0.18	0.06
Al2O3	55	52	78	56	72.80	92
CaO	0.20	0.05	0.03	0.05	0.04	0.05
MgO	0.10	0.05	0.10	0.20	0.07	0.05
K2O	1.60	0.02	0.50	1.40	0.12	0.11
Na2O	0.10	0.15	0.20	0.10	0.08	0.12
Zr2O	Nil	30			13.80	
<b>Control Properties (Category 1)</b>						
Apparent Porosity (%)	25	21.50	19.00	20.00	20.50	26
Bulk Density (Kg/m3)	2100	2900	2560	2280	3000	2680
<b>Supplementary Properties (Category 2)</b>						
Cold Crushing Strength (MN/m2)	45	60	60	40	90	60
Permanent Linear Change (%) 1500 C.	0.20	-0.20	-0.1	-0.3		

	AB 45	AS k60	ATA 1	AFA 1	AZ 1	AZ 65
Product Definition	Sillimanite	Mid Alumina	Alumina	Alumina	Alumina Zircon	Alumina mullite zircon
SiO2	40	36	2.4	2.6	9	14
TiO2	1	0.35	0.06	0.06	0.07	0.11
Fe2O3	0.93	1.00	0.07	0.06	0.05	0.15
Al2O3	55.4	61.50	97	97.5	78	66.5
CaO	0.2	0.10	0.06	0.01	0.05	0.05
MgO	0.15	0.20	0.02	0.01	0.05	0.05
K2O	0.85	0.60	0.01	0.01	0.01	0.14
Na2O	0.02	0.02	0.3	0.15	0.20	0.01
Zr2O					12.5	18.5
<b>Control Properties (Category 1)</b>						
Apparent Porosity (%)	22	19	20.5	23.5	23.50	18
Bulk Density (Kg/m3)	2220	2400	2970	2980	2950	3080
<b>Supplementary Properties (Category 2)</b>						
Cold Crushing Strength (MN/m2)	75	65	70	75	55	95
Permanent Linear Change (%) 1500 C.			-0.2	-0.1	-0.1	

The information set forth here in are offered solely for your consideration and all values are averages and subject to change without prior notice.