



High Alumina Ceramic for Ballistic Protection (CUMITUFF)

No	Attributes	Unit	Value			
			CUMITUFF 90	CUMITUFF 92	CUMITUFF 98	CUMITUFF 995
1	Alumina Content	%	90	92	98	99.5
2	Density	g/cc	3.55	3.65	3.8	3.85
3	Rock well Hardness	R45N	75	78	80	81
4	Vickers	Kg/mm ²	1030	1125	1200	1330
5	Fracture Toughness	MPa.m ^{0.5}	3-4	4-5	4-5	4-5
6	Sonic Velocity	m/sec	9400	9800	10200	10400



CARBORUNDUM UNIVERSAL LIMITED
CERAMICS DIVISION



MURUGAPPA
GROUP



Works:
#47, SIPCOT Industrial Complex,
Hosur - 635 126, Tamilnadu, India
Tel.: +91 4344 276027, 278480
Fax: +91 4344 276028

Regd Office:
"Parry House", 6th Floor, 43, Moore Street,
Chennai 600 001, TN, India
Tel.: 044 42216789, Fax : 044 2535176
www.cumi.murugappa.com