



# CUMI SHARP



## BROWN FUSED ALUMINA

Brown Fused Alumina grains are manufactured by controlled fusion – reduction process of Bauxite in an electric arc furnace followed by slow solidification. The high Titania content (~ 2.8%) and massive crystal size provide these grains high toughness and strength. High intensity magnetic separation methods ensure that the product is totally free of iron particles.

## APPLICATION

**CUMI SHARP** ABV grains are especially designed to manufacture vitrified bonded abrasives products.

## GRAIN SIZES AVAILABLE

6, 8, 10, 12, 14, 16, 20, 24, 30, 36, 40, 46, 54, 60, 70, 80, 80, 90, 100, 120, 150, 180 and 220 as per FEPA (Federation of European Producers of Abrasives) standard 42-1:2006.

Physical Properties		
Property	Unit	Value
Hardness	Mohs Scale	9
Hardness	Knoop Scale (Kg/mm <sup>2</sup> )	2100
Specific gravity		3.94

Chemical composition	
Constituent	Value *
Al <sub>2</sub> O <sub>3</sub>	95.61 %
TiO <sub>2</sub>	2.66 %
SiO <sub>2</sub>	0.76 %
Fe <sub>2</sub> O <sub>3</sub>	0.24 %
CaO	0.73 %

\* Analyzed for Grit F 60

BULK DENSITY (TYPICAL)							
Grit	g/cc	Grit	g/cc	Grit	g/cc	Grit	g/cc
12	1.88 – 2.06	30	1.82 – 1.96	60	1.70 – 1.82	150	1.54 – 1.62
14	1.88 – 2.06	36	1.80 – 1.93	80	1.65 – 1.75	180	1.50 – 1.58
16	1.86 – 2.04	40	1.80 – 1.92	90	1.63 – 1.73	220	1.48 – 1.55
20	1.84 – 2.02	46	1.80 – 1.90	100	1.60 – 1.70		
24	1.82 – 2.00	54	1.78 – 1.88	120	1.57 – 1.67		

Values obtained according to FEPA 44-1:2006

*Packing: 25 kg multiply paper bags of 1000 kg palletized. Other packaging types on request*

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