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BROWN ALUMINIUM OXIDE

TRADE NAME

ALCAB

DESCRIPTION

ALCAB is an extremely hard brown fused alumina which is very resistant against fracturing on impact. It is the second hardest mineral after a diamond.

FUNCTION

ALCAB's high density and angular sharpness make it one of the fastest, most versatile and economical cutting media available for abrasive blasting applications from cleaning and deburring to etching and finishing. Typically used on stainless steels and other non-ferrous metals. Also used as a grinding and polishing media.

TYPICAL CHEMICAL ANALYSIS (full analysis on application)

$Si0_2$	1.9% (no free silica)
Al_20_3	92%
Fe_2O_3	2.2%
$Ti0_2$	2.8%
Other Oxides	1 %

TECHNICAL DATA

Hardness	9 Moh scale
Specific weight	3.85 g/cm³
Bulk weight	Approx. 1.49 – 1.90 kg / L
Shape	Angular and sharp
Storage	In cool, ventilated area
Packaging	1 ton bulk bags or 40 x 25 kg bags, palletised

SIEVING RANGE

CODE	SIZE RANGE (micron)	PROFILE RANGE (micron)	PERFORMANCE CHARACTERISTICS
F14	1000 - 1700	180 - 120	The high percentage of TiO_2 (3%) shows the toughness of the product, which results in longer cutting life, more circulations before breaking down (15 times) and increased cost-effectiveness. Superior surface profile – virtually free of embedment, providing an excellent surface profile for coating adhesion. Capable of profiling the toughest steels including stainless steel. Suitable for use on non-ferrous metals. Non-toxic – inert and natural, with no free crystalline silica. Low dust levels – improved operator visibility. Easy cleanup. Non-reactant – will not interfere with your coatings.
F20	710 - 1180	120 – 80	
F36	355 - 600	85 - 60	
F60	180 - 300	75 - 45	
F80	125 - 212	55 – 25	
F100	75 - 150	50 - 20	
F150	45 - 106	30 - 15	

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