



Abrasives, Electro Minerals & Metals

TECHNICAL DATA

Brand Name: **Alumac** Premium

Mac'Ants Group Ref: **PBA**

Product: Aerospace Quality Brown Fused Alumina

Description: Our highest quality brown fused alumina specifically approved for aerospace applications

Application: A tough and aggressive electro mineral first discovered at the turn of the 1900's. Our product has been validated and approved by a vast array of aerospace OEM clients for use in deshellng, surface finishing, deburring and the majority of surface improvement applications. Approvals include Rolls Royce CSS12, Rolls Royce OMAT 184; 1/293; 145; 1/244; 146; 1/266; 1/39; 1/314 BAE Systems Airbus ABR9-0160 BAEP2002, AVP2-017 & R10-6031 ; GE Aircraft Engines DT50F.

Chemical Composition:

Compound	Chemical Formula	Typical Content %	Guaranteed Limits %
Aluminium Oxide	Al ₂ O ₃	96	94 min
Titanium Dioxide	TiO ₂	1.76	3.5 max
Silicon Dioxide	SiO ₂	0.53	1.5 max
Iron Oxide	Fe ₂ O ₃	0.14	0.4 max
Calcium Oxide	CaO	0.05	0.2 max
Magnesium Oxide	MgO	0.26	0.5 max
Chromium Oxide	Cr ₂ O ₃	<0.01	0.01 max
Alkali Metals	Na ₂ O & K ₂ O	<0.01	1.0 max
Elemental Lead	Pb	<1ppm	5ppm max
Acid Extractable Iron	Fe	0.025	0.3 max

Determined by FAAS, XRF and XRD Techniques

Physical Parameters:

Bulk Density	Subject to grade / size distribution
Shape	Semi Cubical
Colour	Brown
Specific Gravity	3.95 g/cc
Hardness	9 moh / 2000 knoop Diamond

Gradation:

Grit sizes in macro range 8 to 220 and micro 280/500, bespoke and blended grades on request.

Packaging:

Typically 25 kg multi ply paper sacks, but 1000kg big bags are available and custom label on application

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