



Abrasives, Electro Minerals & Metals

TECHNICAL DATA

Brand Name: *Alumac* Premium Mac'Ants Group Ref: **PBA**
Product: Aerospace Quality Brown Fused Alumina
Description: Our high 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.

Certification: Rolls Royce CSS12, Rolls Royce OMAT 184; 1/293; 145; 1/244; 146; 1/266; 1/39; 1/314. Pratt & Whitney; PMC3044, PMC3045, PMC3052, PMC3079, PMC3121, PMC3123, PMC3132, PMC3155, PMC3187, PMC3202 and compliant to GE Aircraft Engines D50TF5.

Chemical Composition:

Compound	Chemical Formula	Typical Content %	Guaranteed Limits %	CAS No. / EINECS No.
Aluminium Oxide	Al ₂ O ₃	96	94 min	1344-28-1 / 215-691-6
Titanium Dioxide	TiO ₂	1.76	3.5 max	13463-67-7 / 236-675-5
Silicon Dioxide	SiO ₂	0.53	1.5 max	7631-86-9 / 231-545-4
Iron Oxide	Fe ₂ O ₃	0.14	0.4 max	1309-37-1 / 215-168-2
Calcium Oxide	CaO	0.05	0.2 max	1305-78-8 / 215-138-9
Magnesium Oxide	MgO	0.26	0.5 max	1309-48-4 / 215-171-9
Chromium Oxide	Cr ₂ O ₃	<0.01	0.01 max	1308-38-9 / 215-160-9
Alkali Metals	Na ₂ O & K ₂ O	<0.01	1.0 max	1313-59-3 / 215-208-9
				12136-45-7 / 235-227-6
Elemental Lead	Pb	<1ppm	5ppm max	NA
Acid Extractable Iron	Fe	0.025	0.3 max	NA

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

Compliance:

This product is REACH compliant, ask Mac'Ants Group for the associated REACH registration details.

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Date: Apr 2014

Document Status: Controlled / Uncontrolled
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Mac'Ants Group, Todwick Road, Dinnington, Sheffield S25 3SE UK
Tel: +44 (0) 1909 552500 Fax: +44 (0) 1909 568726
Email: group@macants.co.uk www.macants.co.uk