



Abrasives, Electro Minerals & Metals

TECHNICAL DATA

Brand Name: Alumac Premium White

Mac'Ants Group Ref: PWA

Product: Aerospace White Fused Alumina

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

Application: An aggressive electro mineral manufactured from purer calcined aluminas and selected for purity in manufacture. Our product has been validated and approved by a vast array of aerospace OEM clients for use in precision surface finishing and specialised surface improvement applications on super alloy and stainless components. Approvals include Rolls Royce CSS12, Rolls Royce OMAT 184; 1/293; 145; 1/244; 146; 1/266; 1/39; 1/314.

Chemical Composition:

Compound	Chemical Formula	Typical Content %	Guaranteed Limits %
Aluminium Oxide	Al ₂ O ₃	99.8	99.75 min
Titanium Dioxide	TiO ₂	0.008	0.01 max
Silicon Dioxide	SiO ₂	0.06	0.1 max
Iron Oxide	Fe ₂ O ₃	0.08	0.1 max
Calcium Oxide	CaO	0.031	0.05 max
Magnesium Oxide	MgO	0.03	0.05 max
Chromium Oxide	Cr ₂ O ₃	0.007	0.01 max
Alkali Metals	Na ₂ O & K ₂ O	<0.005	0.1 max
Elemental Lead	Pb	<1ppm	5ppm max
Acid Extractable Iron	Fe	0.025	0.1 max
Acid Extractable Lead	Pb	<3ppm	20ppm max

Determined by FAAS, XRF and XRD Techniques

Physical Parameters:

Bulk Density	Subject to grade / size distribution
Shape	Angular
Colour	White
Specific Gravity	3.95 g/cc
Hardness	9.5 moh / 2200 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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