



Abrasives, Electro Minerals & Metals

TECHNICAL DATA

Brand Name: **Alumac** Brown

Mac'Ants Group Ref: **BA**

Product: Brown Fused Alumina

Description: A high grade commercial brown fused alumina manufactured from bauxite, silica, coke and iron

Application: A tough and aggressive electro mineral first discovered at the turn of the 1900's. Manufacturing procedures substantially improved over the years now offering a highly consistent synthetic mineral for use in a myriad of applications from general blasting and surface finishing of non aero components, anti slip flooring, vibratory finishing medias, safe manufacture, coated & bonded abrasives and polishing compounds.

Chemical Composition:

Compound	Chemical Formula	Typical Content %	CAS No. / EINECS No.
Aluminium Oxide	Al ₂ O ₃	95	1344-28-1 / 215-691-6
Silicon Dioxide	SiO ₂	0.6 – 1.2	7631-86-9 / 231-545-4
Titanium Dioxide	TiO ₂	2.5 - 3.5	13463-67-7 / 236-675-5
Iron Oxide	Fe ₂ O ₃	0.4	1309-37-1 / 215-168-2
Calcium & Magnesium Oxide	CaO and MgO	<0.6	1305-78-8 / 215-138-9 1309-48-4 / 215-171-9
Alkali Metals	Na ₂ O & K ₂ O	<0.01	1313-59-3 / 215-208-9 12136-45-7 / 235-227-6

Physical Parameters:

Bulk Density	1.64 – 1.88 g /cc (subject to grade)
Shape	Semi Cubical
Colour	Brown
Specific Gravity	3.95 g/cc
Hardness	9 moh / 2000 knoop Diamond
Typical Conductivity	36# 0.0685 mS/cm; 80# 0.0778 mS/cm; 150# 0.0745 mS/cm

ISO11126-7 parameters and procedure <25mS/cm tolerance

Gradation:

FEPA F and P grit in macro range 8 to 220 and micro 240 to 1200, 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.

Page: 1-1-1

Issue: 4

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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