

BROWN ALUMINUM OXIDE MACRO & POWDERS WITH TREATMENT S-2

1 DESCRIPTION

A medium-density, long-wearing abrasive with a silane surface treatment for excellent bonding between the abrasive grain and organic adhesives. This aluminum oxide has a hardness of 9.0 on the Mohs scale and 2,090 on the Knoop scale.

2 APPLICATIONS

Designed for use in resinoid or vitrified bonded applications, or in any parts designed for high-wear applications. The particle shape and the surface treatment combine to offer the following advantages:

- A. Large and uniform surface area for increasing Bonding strength.
- B. Increased performance and life for wet or dry grinding.
- C. Reduces premature dismounting of individual grains.

3 TYPICAL CHEMISTRY

Al ₂ O ₃	94.91%
TiO ₂	3.97%
SiO ₂	0.40%
Fe ₂ O ₃	0.10%
ZrO ₂	0.28%

4 PHYSICAL PROPERTIES

Crystalline Structure	Alpha
Knoop Hardness	2,090
Mohs Hardness	9.0
Density	3.92 gr/cm ³
Particle Form	Blocky Shape

5 SPECIFICATIONS / NORMS

FEPA 42-1:2006

ANSI B74.10.2010

6 SIZES & DENSITIES

FEPA		ANSI
F-12	F-60	G-240
F-14	F-70	G-280
F-16	F-80	G-320
F-20	F-90	G-400
F-24	F-100	
F-30	F-120	
F-36	F-150	
F-46	F-180	
F-54	F-220	

7 PACKAGING

1
25 kg, paper bags and 500 lb., minibags on wood pallets with stretchable wrap.