

**HERMES ABRASIVE SURFACE TREATMENT PRODUCTS AND METAL IMPORT INDUSTRY AND
TRADE LIMITED LIABILITY COMPANY**



HERMES
A B R A S I V E

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**BROWN ALUMINUM OXIDE SAND
TECHNICAL DATA SHEET - TDS**

Product name

Brown Aluminum Oxide Sand

Seller

HERMES ABRASIVE SURFACE TREATMENT PRODUCTS AND METAL IMPORT INDUSTRY AND TRADE LIMITED LIABILITY COMPANY

Contact: +90 (546) 556 70 74 +1 (315) 633-32954716

Brown Aluminum Oxide is produced by combining bauxite and anthracite in high temperature electric arc furnaces. It belongs to your electro-corundum group. It is in brown color and has no iron structure and is the second hardest mineral after the elmasane. Resistant to abrasion. Brown aluminum is widely used in the manufacture of abrasive stone and abrasive as well as in wet and dry sanding applications. Brown Aluminum Oxide is produced by combining bauxite and anthracite in high temperature electric arc furnaces. It belongs to the electro-corundum group. Red to black & brown, non-ferrous structure and the second hardest mineral after the elmasane. Resistant to abrasion. Brown aluminum oxide is widely used in abrasive stone and abrasive production as well as in wet and dry sanding applications.

TECHNICAL SPECIFICATIONS

SYMBOL	CHEMICAL NAME	RATE
Al ₂ O ₃	Aluminium Oxide	%95,65
TiO ₂	Titanium Dioxide	%2,42
Fe ₂ O ₃	Iron Oxide	%0,12
SiO ₂	Silicon Dioxide	%0,92
CaO	Calcium Oxide	%0,35
MgO	Magnesium Oxide	%0,22

PHYSICAL PROPERTY

Color	Red to Black & Brown
Hardness	9 Moh's
Grain Structure	Angular
Melting Point	approx. 1950 C
Specific gravity	approx. 3,9 – 4,1 g/cm ³
Bulk Density	approx. 1,5 – 2,1 g/cm ³
Solubility	Insoluble

PHYSICAL PROPERTY

FEPA	Grain Size(Micron)
F008	2000-2800
F010	1700-2360
F012	1400-2000
F014	1180-1700
F016	1000-1400
F020	850-1180
F022	710-1000
F024	600-850
F030	500-710
F036	425-600
F040	355-500
F046	300-425
F054	250-355
F060	212-300
F070	180-212
F080	150-200
F090	125-180
F100	106-150
F120	90-125
F150	63-106
F180	63-90
F220	53-75

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