

# Brown Aluminium Oxide



Brown Aluminium Oxide is fused in an electric-arc furnace by high temperature. Its main raw material are bauxite and anthracite. Brownish coloured, its chemical composition contains  $Al_2O_3$ , a small amount of  $SiO_2$ ,  $TiO_2$  and  $Fe_2O_3$ , etc. The micro hardness is 1800 to 2200  $kg/mm^2$ . The toughness is higher than silicon carbide. Abrasives articles made of it are suited for grinding metals malleable iron and hard high-class refractory products.

The range of applications includes blasting, polishing and lapping.

## Industrial Users Includes

- Aerospace / Aviation
- OEM Subcontractors
- Onshore Contractors / Shipyard
- Steel fabricators / Manufacturers
- Semiconductor Manufacturing
- Foundry / Die casting
- Non-ferrous surfaces
- Stainless steel

## Chemical Composition (Typical)

	$Al_2O_3$	$TiO_2$	$Fe_2O_3$	$SiO_2$	CaO	$Na_2O$	$Cr_2O_3$
Brown	94.5 -97%	1.5 – 3.8%	<0.5%	<1.5%	<0.6%	N/A	N/A
White	>99%	N/A	<0.1%	<0.1%	<0.1%	0.35%	N/A
Pink	>99%	N/A	N/A	<0.1%	<0.1%	0.35%	0.35%

## Physical Characteristics (Typical)

- Bulk Density : 2.4 T/M<sup>3</sup>
- Hardness (Mohs) : 9
- Shape : Angular, Blocky
- Specific Gravity : 3.9 to 3.95
- Melting Point : Approx. 1850 °C
- Colour : Brown / White / Pink

## Available Sizes

Grade	8	10	12	14	16	20	24	30	36
Microns	2360-2800	2000-2360	1700-2000	1400-1700	1400-1180	1000-1180	710-850	600-710	500-600

Grade	46	60	80	100	120	150	180	220	240
Microns	355-425	250-300	180-212	125-150	106-125	75-106	63-90	53-75	53-75

Other sizes available on request

**Packaging** - 1 Tonne Pallet (40 x 25kg bags)

