

## Technical Data Sheet – Aluminium Oxide

Aluminium Oxide is a re-useable abrasive grit, mainly used in cabinets. It can be used on alloy and non ferrous components due to its low free iron content. It is made from calcined bauxite, which is electro fused to produce aluminium oxide. It can be made in Pink, White, and brown.

Pink has chromium added to increase the hardness and durability.

White aluminium oxide goes through another process ( Bayer ) to reduce the free and bonded iron contents. It is therefore often specified for quality critical products.

Product is packed in 25kg bags

Tariff Code 2818200090

### Chemical Composition

Component Name	Code	Concentration
Aluminium Oxide	AL <sub>2</sub> O <sub>3</sub>	95.00%
Silica DiOxide	SiO <sub>2</sub>	1-2%
Titanium Dioxide	TiO <sub>2</sub>	2-3%
Iron Oxide	FE <sub>2</sub> O <sub>3</sub>	0.1-0.2%

### Physical Properties

Physical state	Solid, Angular, Brown
Odour	None
Explosion Limits (%)	None
Flash point:	None
Solubility in water (kg/m3)	Insoluble
Density (kg/m3)	4.0
Hardness	9 mohs

Chloride content	less than 25 ppm
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### Grade Sizes

Fepa	Mesh	Microns
F14	12/16	1180-1700
F16	14/20	1000-1400
F16/20	12/24	850-1400
F20	20/16	850-1180
F36	30/40	425-600
F40	36/46	355-500
F46	40/50	300-425
F54	46/60	250-355
F60	50/ 70	212-300
F70	60/80	180-250
F90	80/100	125-180

Fepa	Mesh	Microns
F100	90/120	106-150
F120	100/180	90-125
F180	150/240	53-90
F220	280/180	45-75
F240		44.5
F320		35
F360		22.8

