

Aluminium Oxide

Free Flowing Powder



NS6130-05-522A

APS
-100Mesh



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Aluminium Oxide Free Flowing Powder

Alumina, commonly known as aluminium oxide and it is an inert, odourless, white amorphous material often utilized in industrial ceramics. Aluminium oxide is a thermally unstable and insoluble compound that occurs naturally in various minerals for instance corundum, a crystalline variant of the oxide, and bauxite, which is considered as its principal aluminium ore.

Most of the aluminium oxide produced is utilized to form aluminium metal and oxygen typically catalyses corrosion in reaction with the metal aluminium. However, when bonded with oxygen to form aluminium oxide, protective coating forms and prevents further oxidation. This adds strength and makes the material less vulnerable to deterioration. It is also an economical substitute for industrial diamonds. Aluminium oxides are employed, as well, for the fabrication of piping components for example elbows, tees, straight pipes, hydro cyclones, reducers, nozzles, and valves.

Quick Facts

Product	:	Aluminium Oxide Free Flowing Powder
Stock No	:	NS6130-05-522A
CAS	:	1344-28-1
Purity	:	99%
Color	:	White
Form	:	Powder

Technical Specification

Formula	APS	Molecular Weight	Melting Point
Al_2O_3	-100Mesh	101.96 g/mol	2072 °C

Chemical Composition

Product	Weight Percent (nominal)	
	Al_2O_3	Other Metal
Aluminium Oxide Free Flowing Powder	99%	

Applications

- Bearings in hip replacements
- Bionic implants
- Micro-electric substrates
- Cutting tools
- Refractories
- Ceramics

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