

Product Data Sheet

Special Grade Aluminium Powder (Flake)

Description

Description	Special grade aluminium powder is a fine flake (lamellar) aluminium powder. Its flaky particle shape and high surface area suit it to agriculture, pyrotechnics, pigments, and general industrial use. Supplied as a flammable solid requiring dry, controlled handling.
Applications	Used in agriculture (fertiliser / micronutrient), pyrotechnics, pigments, and general industrial applications.
Used In	Agriculture, pyrotechnics, pigments, general industrial

Key Benefits

- Fine flake (lamellar) aluminium powder
- High surface area for reactive applications
- Suited to pyrotechnics, pigments, and agriculture
- High aluminium content
- Available in graded finenesses (to spec)

Chemical Analysis & Physical Data

Chemical Composition

Parameter	Specification
Aluminium (Al, total)	Min. 99.0%
Metallic Aluminium (active)	Typically min. 95% (grade dependent)
Particle Shape	Flake / lamellar
Fineness	To buyer requirement (mesh / micron)
Appearance	Silvery-grey fine flake powder

Physical Properties

Property	Specification
Form	Flake (lamellar) powder

Particle Shape	Flaky
Fineness	To spec (mesh / micron)
Apparent Density	Low (flaky)
Hazard	Flammable solid; water-reactive

* Flammable solid; metallic (active) Al content to buyer requirement. Test methods available upon request.

Packaging

- 25 kg / 50 kg sealed steel drums or fibre drums (moisture-proof)
- Sealed PE-lined bags inside drums
- Smaller packs (5–20 kg) available on request
- Custom packaging available on request.

Storage & Handling

- Store in a dry, cool, well-ventilated area in sealed containers – keep strictly DRY
- Aluminium powder reacts with water / moisture, releasing flammable hydrogen gas
- Keep away from heat, sparks, open flame, oxidisers, acids, and alkalis
- Avoid dust clouds (explosion risk); ground equipment; full PPE and dust control

Disclaimer: The information provided in this document is based on our current knowledge and is intended as a general guide.

Specifications vary by lot; figures are typical values. Ochnology Solution Pvt. Ltd. reserves the right to modify specifications without prior notice. Buyers are advised to conduct their own testing for specific applications. Aluminium powder / paste is flammable – refer to the MSDS before handling.