

Product Data Sheet

Atomized Aluminium Powder (Spherical)

Description

Description	Atomized aluminium powder is a high-purity, spherical aluminium powder produced by gas / air atomisation. Its controlled spherical particle shape and free-flowing nature make it ideal for metallurgy, foundry, additive manufacturing (3D printing), and coatings. Supplied as a flammable solid.
Applications	Used in metallurgy (aluminothermic / exothermic), foundry, additive manufacturing (3D printing), and coatings.
Used In	Metallurgy, foundry, 3D printing, coatings

Key Benefits

- High-purity spherical aluminium powder
- Controlled, free-flowing spherical particles
- Suited to metallurgy and foundry (aluminothermic)
- Ideal for additive manufacturing (3D printing)
- Available in graded particle sizes (to spec)

Chemical Analysis & Physical Data

Chemical Composition

Parameter	Specification
Aluminium (Al, total)	Min. 99.5%
Metallic Aluminium (active)	Typically min. 99% (grade dependent)
Particle Shape	Spherical
Particle Size	To buyer requirement (e.g. 15–45 µm for AM)
Appearance	Silvery-grey free-flowing powder

Physical Properties

Property	Specification
Form	Spherical (atomized) powder

Particle Shape	Spherical
Particle Size	To spec (µm)
Flowability	Free-flowing
Hazard	Flammable solid; water-reactive

* Flammable solid; particle size and purity to buyer requirement (e.g. AM / 3D printing grades). 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.