

INLAND ATOMIZE METAL POWDER LLP

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Pre Alloyed Powder

IAMP is specialist to supply Pre Alloyed powders by VIGA process, which meet specific technical requirements such as Apparent Density, Specific Surface Area and Purity.

Applications:

- **Additive Manufacturing (3D Printing): Aerospace** turbine blades, structural parts, and engine components. Defence and space-grade hardware requiring high strength-to-weight ratio.
- **Powder Metallurgy (PM)** : High-performance gears, bearings, and wear-resistant components, Automotive engine parts and precision tooling.
- **Hot Isostatic Pressing (HIP)** : Near-net-shape parts with full density. Critical aerospace and energy components with superior fatigue life.
- **Thermal Spray Coatings** : Wear-resistant coatings for industrial machinery. Corrosion and oxidation protection for power plant and chemical equipment.
- **Welding & Brazing Alloys** : Repair of turbine blades, dies, and moulds. Joining of dissimilar metals with strong metallurgical bonding.
- **Tooling & Dies** : Injection moulding inserts and die-casting dies. High-wear cutting and forming tools.
- **Energy & Power Sector** : Nuclear reactor components. Oil & gas drilling equipment. Gas turbine and steam turbine parts.

Specification:

Grade	Composition (%)	A.D.g/cm ³	Particle Size
IAMP – FeCu	FeCu20, FeCu30	3.2 – 4.2	100mesh, 200mesh, 300mesh

Packaging:

Pre Alloyed powder will be supplied by standard packing in Vacuum bag of 5Kg, 10Kg, and 25Kg or can be supplied as per customer special requirement.

Storage:

Keep in a cool, dry, and well-ventilated environment, away from direct sunlight and humidity. Avoid exposure to open atmosphere for extended periods; powders are hygroscopic and may agglomerate. Containers should be tightly closed immediately after use to preserve flowability and prevent oxidation. Store away from heat sources, sparks, or open flames, as fine powders may form explosive dust-air mixtures. For long-term storage, inert gas (argon/nitrogen) purging or vacuum-sealed packaging is recommended.

**Specification is only for Reference purposes, and it varies with application requirements*