

INLAND ATOMIZE METAL POWDER LLP

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IAMP NiFuse 625

Material: Nickel Base Super Alloy (UNS N06625)

Manufacturing Method: Gas Atomization

IAMP NiFuse 625 is a nickel-chromium-molybdenum-niobium alloy powder strengthened primarily by solid solution. It offers excellent corrosion resistance, oxidation resistance, and high strength over a wide temperature range, making it suitable for demanding service environments.

Chemical Composition (Weight %)

Element	C	Si	Mn	P	S	Cr	Mo	Co	Nb	Fe	Ni
Min						20.00	8.00		3.15		Bal.
Max	0.10	0.50	0.50	0.015	0.015	23.00	10.00	1.00	4.15	5.00	

Key Features

- Excellent resistance to corrosion, oxidation, and carburization
- Outstanding resistance to pitting, crevice corrosion, and stress corrosion cracking
- Stable microstructure over a wide temperature range
- Good ductility and toughness
- Suitable for thick, crack-free deposits
- Apparent Density : 4.0 g/cc Min

Particle Size

- Flame Spray: 45 – 106 μm / 20 – 106 μm
- HVOF: 15 – 45 μm
- PTA (Plasma Transferred Arc) / Laser Cladding: 45 – 150 μm
- Custom made particle size can be made upon request

Packaging:

Powder will be supplied by standard packing in Plastic Jar of 1Kg, 5Kg, and 25Kg or can be supplied as per customer special requirement.

Storage:

- Keep in a cool, dry environment away from humidity
- Tumble container before use to ensure powder homogeneity
- Reseal containers immediately after powder withdrawal
- If moisture pickup occurs, dry at 65–95 °C for 120 Minutes with lid loosened
- Remove Silica Gel pouch before using the powder

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