

INLAND ATOMIZE METAL POWDER LLP

Survey No. 230/2, Por-Manglej Road, Village - Manglej, Ta. KARJAN, Vadodara - 391243

Email: Info@Inlandatomizemetalpowder.com

Mo: +9196623 00876

IAMP NiFuse C276

Material: Nickel Base Super Alloy (UNS N10276)

Manufacturing Method: Gas Atomization

IAMP NiFuse C276 (Hastelloy C-276) is a nickel-chromium-molybdenum alloy powder with controlled tungsten content, offering exceptional resistance to a wide range of severe corrosive environments. It is especially resistant to pitting, crevice corrosion, stress corrosion cracking, and chemical attack in both oxidizing and reducing conditions.

Chemical Composition (Weight %)

Element	C	Si	Mn	P	S	Cr	Mo	Co	V	W	Fe	Ni
Min						14.50	15.00			3.50	4.00	Bal.
Max	0.01	0.08	1.00	0.040	0.030	16.50	17.00	2.50	0.35	4.50	7.00	

Key Features

- Outstanding resistance to oxidizing and reducing acids
- Excellent protection against pitting and crevice corrosion
- High resistance to stress corrosion cracking
- Stable properties over a wide temperature range
- Suitable for thick, crack-free deposits
- Good ductility and toughness
- 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