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INDO-FUSION C276

Vacuum Induction Melting - Inert Gas Atomization process is used to manufacture C276 powder at various fractions. Our unique controls in process will control particle size and morphology to get good powder flowability for achieving dense coatings consistently. C276 is an austenitic nickel-molybdenum-chromium alloy with a small addition of tungsten and it shows excellent resistance to chloride stress corrosion cracking, pitting, crevice and general corrosion and it has higher work hardening rate than the austenitic stainless steel and its chemical composition corresponds to UNSN10276.

Particle Size Distribution

Light scattering (ASTM B822 / ISO 13320-1)				
Application	**Size Range**	**D10%**	**D50%**	**D90%**
TS	15 - 45µm	24.0 max	36.0 max	48.0 max
	15 – 53µm	24.0 max	36.0 max	54.0 max

Physical Properties

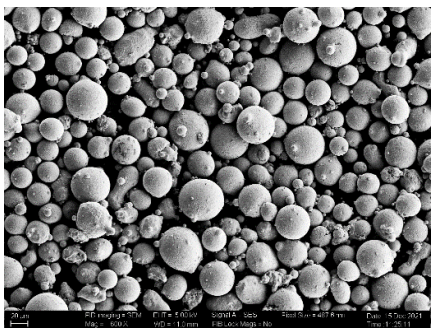
Property	**Specification**	**Test Method**
Tap Density	Min 4.60 g/cc	ASTM B527
Apparent Density	Min 4.00 g/cc	ASTM B212
Hall Flow Number	Max 22 sec/50g	ASTM B213

Chemical Composition (weight %)

Element	**Range (%)**
Carbon	0.01 max
Silicon	0.08 max
Manganese	1.0 max
Phosphorous	0.040 max
Sulphur	0.03 max
Chromium	14.50-16.50
Molybdenum	15.00-17.00
Vanadium	0.35 max
Cobalt	2.50 max
Tungsten	3.50-4.50
Iron	4.00-7.00
Nickel	Balance

Morphology

*Applicable only for Thermal Spray



Customization on chemical composition & particle size can be made.

Packing with 10 / 50 / 100 kg containers & custom packing is possible.

TS: Thermal Spray

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