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INDO-FUSION COBALT-800

Vacuum Induction Melting - Inert Gas Atomization process is used to manufacture Cobalt 800 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. Cobalt 800 is a cobalt-chromium-tungsten superalloy and it has good resistance to wear, abrasion and corrosion at high temperatures. Due to its high levels of molybdenum and chromium favours the formation of the high hardness laves phase and also provides a high level of corrosion resistance.

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

Chemical Composition (weight %)

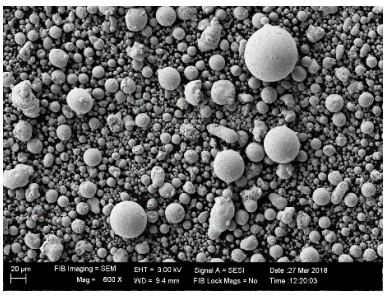
Element	Range (%)
Carbon	0.030 Max
Silicon	3.25 – 3.75
Phosphorous	0.03 max
Sulphur	0.03 max
Chromium	17.00 – 18.00
Molybdenum	27.75 – 28.75
Iron	0.25 max
Cobalt	Balance

Physical Properties

Property	Specification	Test Method
Tap Density	Min 5.10 g/cc	ASTM B527
Apparent Density	Min 5.00 g/cc	ASTM B212
Hall Flow Number	Max 22 sec/50g	ASTM B213

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*