



SPECIALIZED IN POWDER MATERIALS
专业生产金属粉末

镍基高温合金 AM Nickel Alloy Powder

CNPC-Inconel 625

高温镍基合金是铁、镍、钴等元素组成的合金，使用温度可达 950℃，具有优异的耐高温强度，良好的抗氧化和抗热腐蚀性能，良好的疲劳性能、断裂韧性等综合性能，又被称为“超合金”。

Inconel alloy refers to a kind of metal materials based on iron, nickel and cobalt, is a solution-strengthened deformed superalloy with a service temperature of 950℃. It has excellent high-temperature strength, good oxidation resistance and thermal corrosion resistance, good fatigue performance, fracture toughness and other comprehensive properties, and is also known as "superalloy".

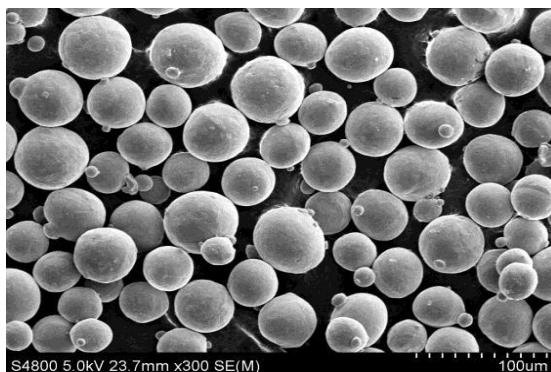
材料描述 MATERIAL DESCRIPTION

材料 (Material): Inconel 625
粒径 (Particle Size): 0-15um;15-53um;45-120um;75-150um
形貌 (Particle Shape): 球形 (Spherical)

化学成分 CHEMICAL COMPOSITION

化学元素 Element	最小含量 Min [%]	最大含量 Max [%]
Ni	Balance	Balance
Cr	20.0	23.00
Mo	8.00	10.00
Nb	3.15	4.15
Fe	-	5.0
Co	-	0.5
Ti	-	0.4
N	-	0.05
O	-	0.04
目标值 Target Values		
霍尔流速 Flow test by Hall(2.5mm)	<20 S/50G	
振实密度 Tapping Density	>4.5G/CM ³	
松装密度 Bulk Density	>4.0G/CM ³	

电镜图 SEM PICTURE





SPECIALIZED IN POWDER MATERIALS
专业生产金属粉末

镍基高温合金 AM Nickel Alloy Powder

CNPC-Inconel 718

高温镍基合金是铁、镍、钴等元素组成的合金，使用温度可达 950℃，具有优异的耐高温强度，良好的抗氧化和抗热腐蚀性能，良好的疲劳性能、断裂韧性等综合性能，又被称为“超合金”。

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材料描述 MATERIAL DESCRIPTION

材料 (Material): Inconel 718
粒径 (Particle Size): 0-15um;15-53um;45-120um;75-150um
形貌 (Particle Shape): 球形 (Spherical)

化学成分 CHEMICAL COMPOSITION

化学元素 Element	最小含量 Min [%]	最大含量 Max [%]
Ni	50.00	55.00
Cr	17.0	21.00
Mo	2.80	3.30
Nb	4.75	5.50
Fe	Bal.	Bal.
Al	0.30	0.70
Ti	0.75	1.15
C	0.02	0.08
N	-	0.05
O	-	0.04
目标值 Target Values		
霍尔流速 Flow test by Hall(2.5mm)	<20 S/50G	
振实密度 Tapping Density	>4.5G/CM ³	
松装密度 Bulk Density	>4.0G/CM ³	

电镜图 SEM PICTURE

