



SPECIALIZED IN POWDER MATERIALS
专业生产金属粉末

铝基合金粉 Aluminum Alloy Powder

CNPC-AISi10Mg

中体新材自主研发新型雾化生产线，推出高品质，低成本，高产量增材制造金属粉末熔融（PBF）工艺用铝合金粉。铝合金粉具有球形度高，卫星粉少，流动性好，氧氮含量低，松装密度高等特点，包括 AlSi3Mg, AlSi7Mg, AlSi10Mg, 5052, 6061, 7075 等规格，支持定制化生产。

CNPC POWDER have a new atomized production line of high-quality, low-cost and high-yield aluminum alloys for PBF applications, The Al alloy powders include AlSi3Mg, AlSi7Mg, AlSi10Mg, 5052, 6061, 7075 and have good characteristic such as good sphericity, few satellites; good flow-ability, low O&N content; high apparent density etc.

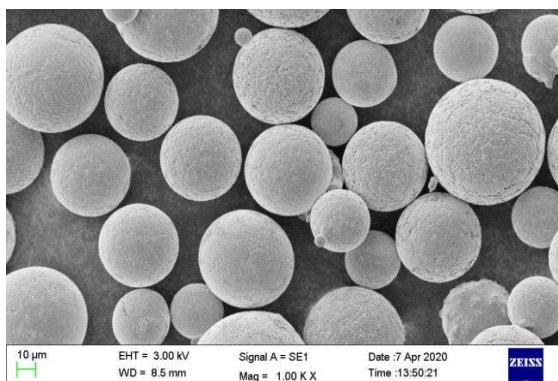
材料描述 MATERIAL DESCRIPTION

材料 (Material) : AlSi10Mg
 粒径 (Particle Size) : 0-25um; 15-53um; 20-60um; 50-150um
 形貌 (Particle Shape) : 球形 (Spherical)

规格特性 CHARACTERISTIC

化学元素 Element	最小含量 Min [%]	最大含量 Max [%]
Al	Balance	
Si	9.00	11.00
Mg	0.20	0.45
Fe	-	0.50
Cu	-	0.05
N	-	0.02
O	-	0.05
Total Others	-	0.50
流速 Flow test by SLM (4.0mm)	-	<45(s/50g)
松装密度 Apparent Density (g/cm ³)	1.40	1.60

电镜图 SEM PICTURES





SPECIALIZED IN POWDER MATERIALS
专业生产金属粉末

铝基合金粉 Aluminum Alloy Powder

CNPC-ALSi7Mg (F357)

中体新材自主研发新型雾化生产线，推出高品质，低成本，高产量增材制造金属粉末熔融（PBF）工艺用铝合金粉。铝合金粉具有球形度高，卫星粉少，流动性好，氧氮含量低，松装密度高等特点，包括 AlSi3Mg, AlSi7Mg, AlSi10Mg, 5052, 6061, 7075 等规格，支持定制化生产。

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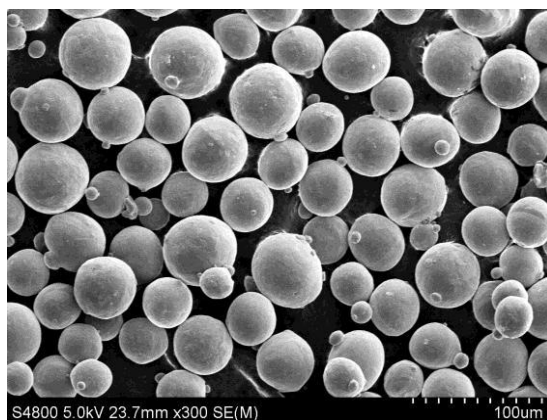
材料描述 MATERIAL DESCRIPTION

材料 (Material) : AlSi7Mg
 粒径 (Particle Size) : 0-25um; 15-53um; 20-60um; 50-150um
 形貌 (Particle Shape) : 球形 (Spherical)

规格特性 CHARACTERISTIC

化学元素 Element	最小含量 Min [%]	最大含量 Max [%]
Al	Balance	
Si	6.50	7.50
Mg	0.20	0.60
Fe	-	0.50
Cu	-	0.05
Ti	0.10	0.20
N	-	0.02
O	-	0.05
流速 Flow test by SLM (4.0mm)	-	<45(s/50g)
松装密度 Apparent Density (g/cm ³)	1.40	1.60

电镜图 SEM PICTURES





SPECIALIZED IN POWDER MATERIALS
专业生产金属粉末

铝合金粉 Aluminum Alloy Powder

CNPC-ALSi3Mg

中体新材自主研发新型雾化生产线，推出高品质，低成本，高产量增材制造金属粉末熔融（PBF）工艺用铝合金粉。铝合金粉具有球形度高，卫星粉少，流动性好，氧氮含量低，松装密度高等特点，包括 AlSi3Mg, AlSi7Mg, AlSi10Mg, 5052, 6061, 7075 等规格，支持定制化生产。

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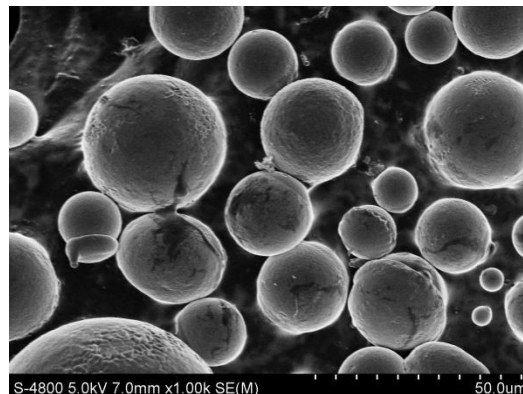
材料描述 MATERIAL DESCRIPTION

材料 (Material) : AlSi3Mg
 粒径 (Particle Size) : 0-25um; 15-53um; 20-60um; 50-150um
 形貌 (Particle Shape) : 球形 (Spherical)

规格特性 CHARACTERISTIC

化学元素 Element	最小含量 Min [%]	最大含量 Max [%]
Al	Balance	
Si	2.50	3.50
Mg	0.20	0.50
Fe	-	0.50
Cu	-	0.05
N	-	0.02
O	-	0.03
Total Others	-	0.50
流速 Flow test by SLM (4.0mm)	-	<45(s/50g)
松装密度 Apparent Density(g/cm ³)	1.40	1.60

电镜图 SEM PICTURES





SPECIALIZED IN POWDER MATERIALS
专业生产金属粉末

铝基合金粉 Aluminum Alloy Powder

CNPC-AL5052

中体新材自主研发新型雾化生产线，推出高品质，低成本，高产量增材制造金属粉末熔融（PBF）工艺用铝合金粉。铝合金粉具有球形度高，卫星粉少，流动性好，氧氮含量低，松装密度高等特点，包括 AlSi3Mg, AlSi7Mg, AlSi10Mg, 5052, 6061, 7075 等规格，支持定制化生产。

CNPC POWDER have a new atomized production line of high-quality, low-cost and high-yield aluminum alloys for PBF applications, The Al alloy powders include AlSi3Mg, AlSi7Mg, AlSi10Mg, 5052, 6061, 7075 and have good characteristic such as good sphericity, few satellites; good flow-ability, low O&N content; high apparent density etc.

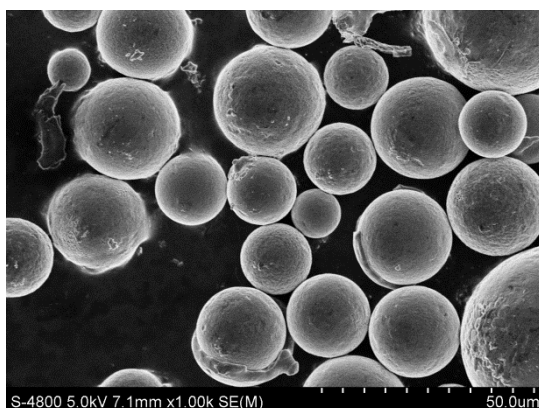
材料描述 MATERIAL DESCRIPTION

材料 (Material) : Al5052
 粒径 (Particle Size) : 0-25um; 15-53um; 20-60um; 50-150um
 形貌 (Particle Shape) : 球形 (Spherical)

规格特性 CHARACTERISTIC

化学元素 Element	最小含量 Min [%]	最大含量 Max [%]
Al	Balance	
Si	0.90	1.20
Mg	5.80	7.50
Mn	0.80	1.20
Fe	-	0.50
Cu	-	0.05
N	-	0.02
O	-	0.05
Total Others	-	0.50
流速 Flow test by Hall(2.5mm)	-	<50(s/50g)
松装密度 Apparent Density(g/cm ³)	1.40	1.60

电镜图 SEM PICTURES





SPECIALIZED IN POWDER MATERIALS
专业生产金属粉末

铝基合金粉 Aluminum Alloy Powder

CNPC-AI6061

中体新材自主研发新型雾化生产线，推出高品质，低成本，高产量增材制造金属粉末熔融（PBF）工艺用铝合金粉。铝合金粉具有球形度高，卫星粉少，流动性好，氧氮含量低，松装密度高等特点，包括 AlSi3Mg, AlSi7Mg, AlSi10Mg, 5052, 6061, 7075 等规格，支持定制化生产。

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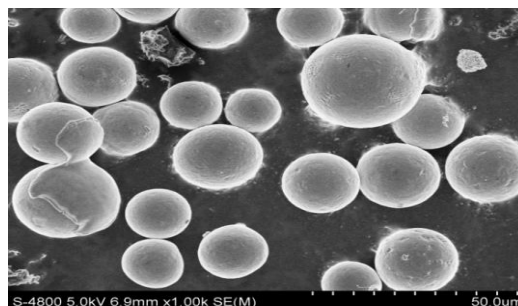
材料描述 MATERIAL DESCRIPTION

材料 (Material) : Al6061
 粒径 (Particle Size) : 0-25um; 15-53um; 20-60um; 50-150um
 形貌 (Particle Shape) : 球形 (Spherical)

规格特性 CHARACTERISTIC

化学元素 Element	最小含量 Min [%]	最大含量 Max [%]
Al	Balance	
Si	0.40	0.80
Mg	0.80	1.20
Mn	-	0.15
Fe	-	0.70
Cu	0.15	0.40
Zn	-	0.25
Cr	0.04	0.35
Ti	-	0.15
N	-	0.02
O	-	0.05
Total Others	-	0.50
流速 Flow test by Hall(2.5mm)	-	<50(s/50g)
松装密度 Apparent Density(g/cm3)	1.40	1.60

电镜图 SEM PICTURE





SPECIALIZED IN POWDER MATERIALS
专业生产金属粉末

铝基合金粉 Aluminum Alloy Powder

CNPC-AI7075

中体新材自主研发新型雾化生产线，推出高品质，低成本，高产量增材制造金属粉末熔融（PBF）工艺用铝合金粉。铝合金粉具有球形度高，卫星粉少，流动性好，氧氮含量低，松装密度高等特点，包括 AlSi3Mg, AlSi7Mg, AlSi10Mg, 5052, 6061, 7075 等规格，支持定制化生产。

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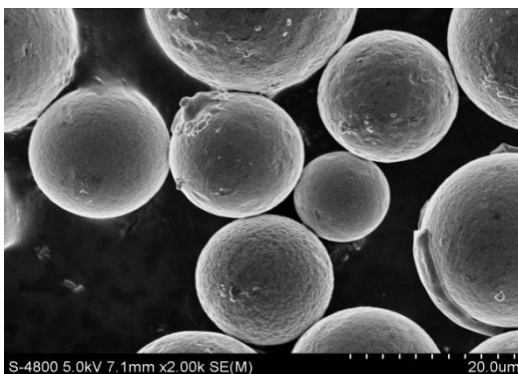
材料描述 MATERIAL DESCRIPTION

材料 (Material) : Al7075
 粒径 (Particle Size) : 0-25um; 15-53um; 20-60um; 50-150um
 形貌 (Particle Shape) : 球形 (Spherical)

规格特性 CHARACTERISTIC

化学元素 Element	最小含量 Min [%]	最大含量 Max [%]
Al	Balance	
Si	-	0.40
Mg	2.10	2.90
Mn	-	0.30
Fe	-	0.50
Cu	1.20	2.00
Zn	5.10	6.10
Cr	0.18	0.28
Ti	-	0.20
N	-	0.02
O	-	0.05
流速 Flow test by Hall(2.5mm)	-	<50(s/50g)
松装密度 Apparent Density(g/cm ³)	1.40	1.60

电镜图 SEM PICTURES





SPECIALIZED IN POWDER MATERIALS
专业生产金属粉末

铝基合金粉 Aluminum Alloy Powder

CNPC-AlMgSc

中体新材自主研发新型雾化生产线，推出高品质，低成本，高产量增材制造金属粉末熔融（PBF）工艺用铝合金粉。铝合金粉具有球形度高，卫星粉少，流动性好，氧氮含量低，松装密度高等特点，包括 AlSi3Mg, AlSi7Mg, AlSi10Mg, 5052, 6061, 7075 等规格，支持定制化生产。

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材料描述 MATERIAL DESCRIPTION

材料 (Material) : AlMgSc
 粒径 (Particle Size) : 0-25um; 15-53um; 20-60um; 50-150um
 形貌 (Particle Shape) : 球形 (Spherical)

规格特性 CHARACTERISTIC

化学元素 Element	最小含量 Min [%]	最大含量 Max [%]
Al	Balance	
Sc	0.60	0.80
Mg	4.00	5.00
Zr	0.20	0.50
Mn	0.30	0.80
Fe	-	0.40
Si	-	0.40
Zn	-	0.25
Ti	-	0.15
N	-	0.03
O	-	0.05
流速 Flow test by Hall (2.5mm)	-	<45(s/50g)
松装密度 Apparent Density (g/cm ³)	1.40	1.60

电镜图 SEM PICTURE

