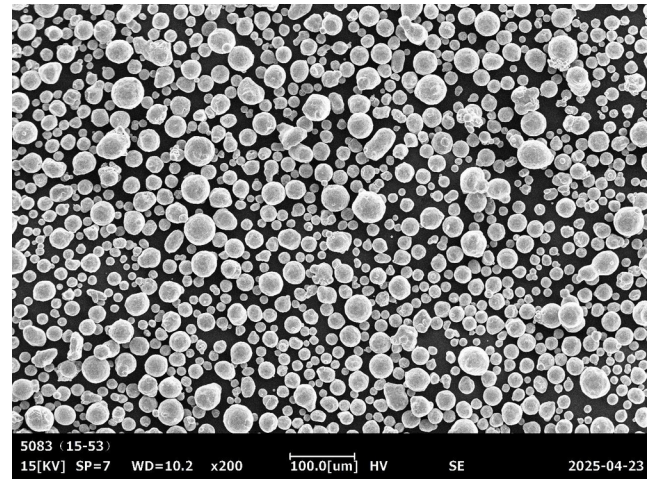


AA 5083

Chemical Composition (wt.%)

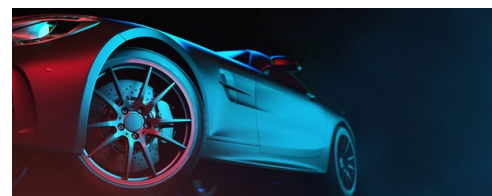
Element	Min	Max
Mg	4.00	4.90
Mn	0.40	1.00
Cr	0.05	0.25
Si		0.40
Fe		0.40
Zn		0.25
Cu		0.10
Ti		0.15
O		0.10
Al		Bal



Powder Characteristics

Properties	Min	Max
Flow rate (s/50g)		80
Apparent density (g/cm3)	1.20	

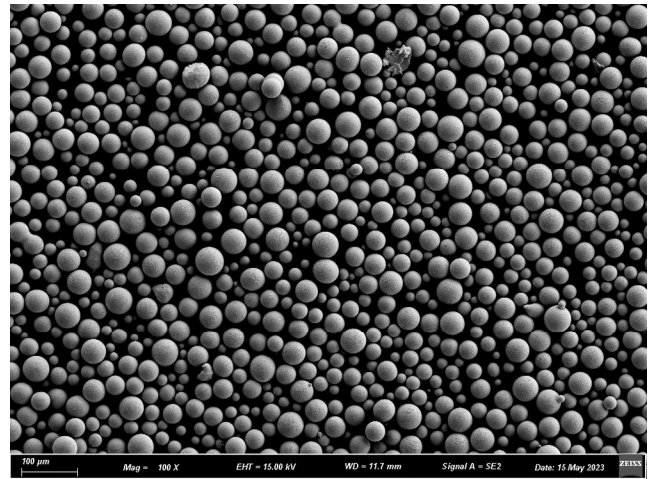
Typical values for PSD 15-53µm



IN718

Chemical Composition (wt.%)

Element	Min	Max
Cr	17.0	21.0
Ni	50.0	55.0
Mo	2.80	3.30
Nb	4.75	5.50
Al	0.20	0.80
Ti	0.65	1.15
Co		1.00
C		0.08
Mn		0.35
Si		0.35
Cu		0.30
Mg		0.01
B		0.006
O		0.02
N		0.02
Fe		Bal



Powder Characteristics

Properties	Min	Max
Flow rate (s/50g)		18
Apparent density (g/cm ³)	4.2	

Typical values for PSD 15-53µm



Mechanical Properties

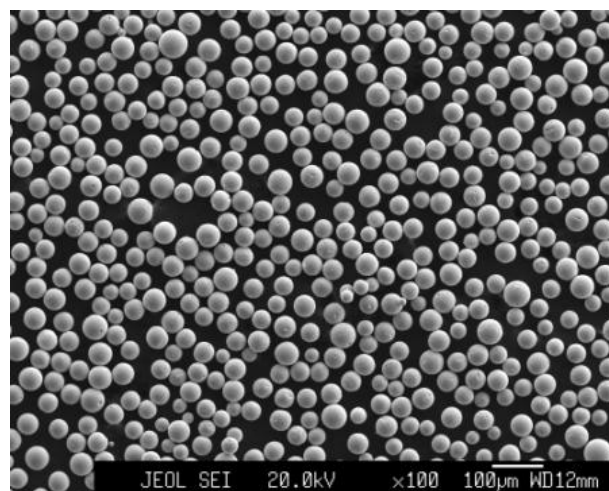
Properties	Value
Tensile strength (MPa)	1250±30
Yield strength (MPa)	1000±30
Elongation (%)	18±5

Typical values for PSD 15-53µm

Mo

Chemical Composition (wt.%)

Element	Min	Max
Mo	99.95	
C		0.01
O		0.03



Powder Characteristics

Properties	Min	Max
Flow rate (s/50g)		14.0
Apparent density (g/cm ³)	5.2	

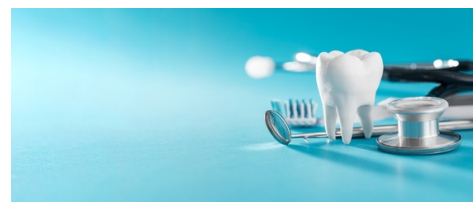
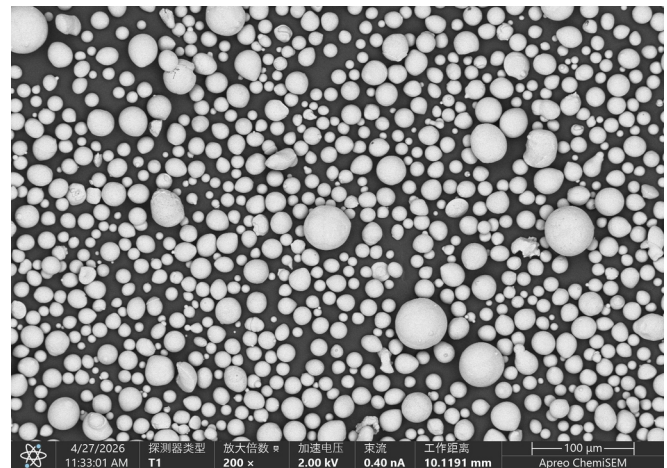
Typical values for PSD 15-53µm



NiTi

Chemical Composition (wt.%)

Element	Min	Max
Ni	54.5	57.0
C		0.04
Co		0.05
Cu		0.01
Cr		0.01
H		0.005
Fe		0.05
Nb		0.025
N+O		0.05
Ti		Bal

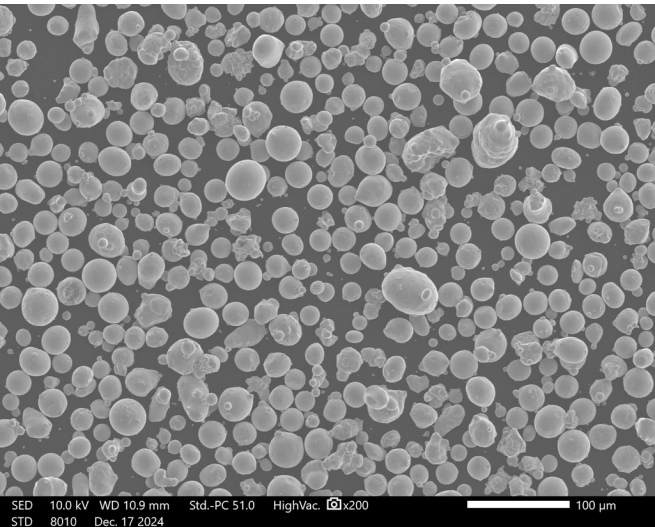


Cu

Chemical Composition (wt.%)

Element	Min	Max
Cu	99.9	
O		0.03

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Powder Characteristics

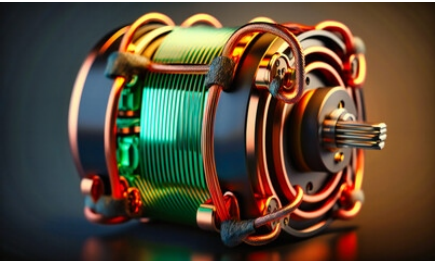
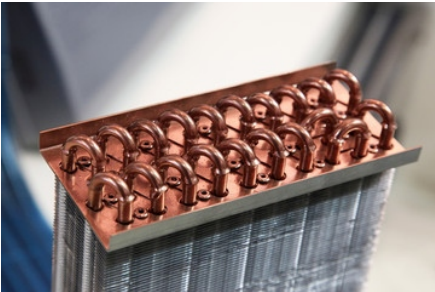
Properties	Min	Max
Flow rate (s/50g)		16
Apparent density (g/cm3)	4.6	

Typical values for PSD 15-53μm

Mechanical Properties (Heat Treated State)

Properties	Value
Tensile strength (MPa)	200±20
Yield strength (MPa)	150±20
Elongation (%)	20±5

Typical values for PSD 15-53μm



Ti64 Grade 5

Chemical Composition (wt.%)

Element	Min	Max
Al	5.50	6.50
V	3.50	4.50
Fe		0.30
C		0.03
N		0.03
H		0.01
O		0.10
Y		0.005
Other elements, each		0.10
Other elements, total		0.40
Ti		Bal

Powder Characteristics

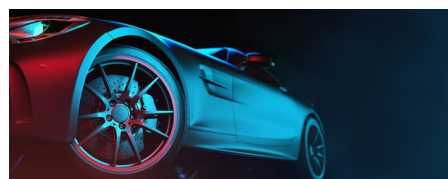
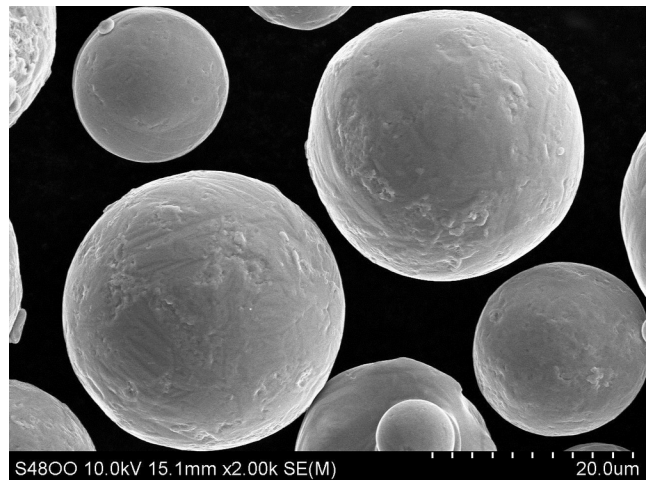
Properties	Min	Max
Flow rate (s/50g)		38
Apparent density (g/cm ³)	2.40	

Typical values for PSD 15-53µm

Mechanical Properties

Properties	Value
Tensile strength (MPa)	1035±10
Yield strength (MPa)	970±20
Elongation (%)	≥12

Typical values for PSD 15-53µm

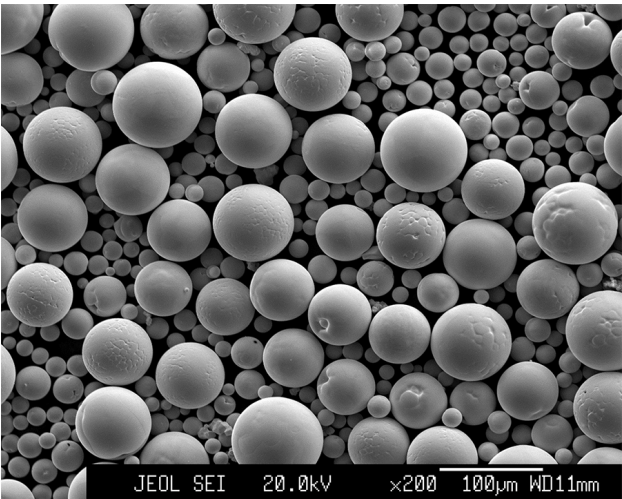


W

Chemical Composition (wt.%)

Element	Min	Max
W	99.9	
Fe		0.10
Cr		0.10
Ni		0.10
O		0.025

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Powder Characteristics

Properties	Min	Max
Flow rate (s/50g)		8.0
Apparent density (g/cm3)	10.0	

Typical values for PSD 15-45µm

