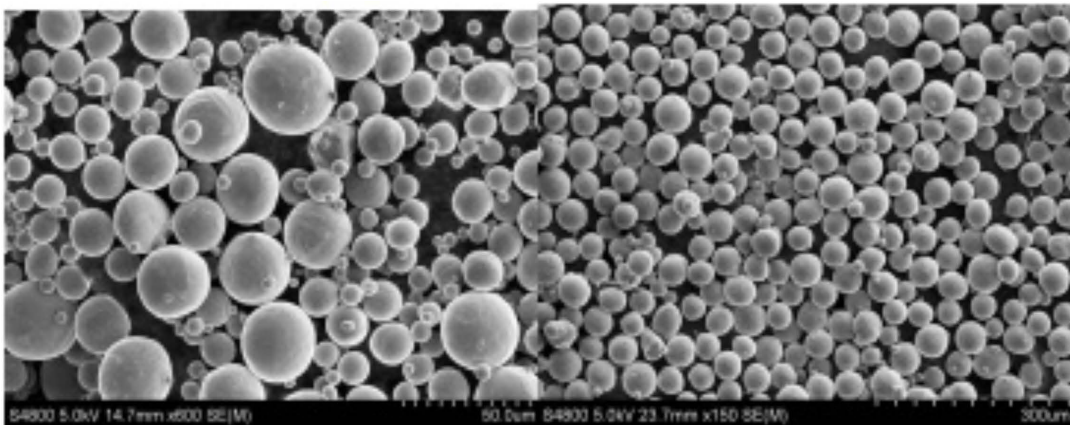


17-4 PH is a martensitic precipitation – hardened stainless steel. It’s known for its corrosion resistance and high levels of strength and hardness, especially when heat treated. 17-4 can be heat treated to a variety of hardness and toughness levels, allowing users to customize post-sintering properties of the alloy to suit a wide variety of applications, including: manufacturing machinery, chemical processing, food processing, pump components, valving, fasteners, jigs and fixtures.

Chemical composition of powder(wt.%)

Elements	Cr	Ni	Cu	Si	Mn
Content range	15.0-17.5	3.0-5.0	3.0-5.0	≤1.0	≤1.0
Elements	C	P	S	Nb+Ta	Fe
Content range	≤0.07	≤0.04	≤0.03	0.15-0.45	Bal.

Powder electron microscope image(degree of sphericity:0.9)



Stainless Steel 17-4PH

DATA SHEET

Physical Properties of the powder

Projects	Granularity			Flowability	Loose-density	Tap density
Range	D10	D50	D90	≤22s/50g	≥4.0g/cm ³	≥4.5g/cm ³
	16-24μm	32-40μm	45-60μm			

Powder printing properties

Printing property				Heat-treated properties			
Tensile Strength (Mpa)	Yield Strength (Mpa)	Hardness HRC/HV	Elongation	Tensile Strength (Mpa)	Yield Strength (Mpa)	Hardness HRC/HV	Elongation
1100±100	1050±100	28-R 41H C	16±4	1250±100	1150±100	36±3HRC	16±4

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