

# forAM® 17-4PH WA

Precipitation hardening stainless steel powder for Binder Jet

**forAM 17-4PH** is a leading stainless steel material used across additive manufacturing technologies. It is a precipitation hardening steel that combines high strength and hardness with corrosion resistance. Due to the attractive combination of properties it is used in a wide range of different applications ranging from automotive and tooling to IT segments.

Höganäs specially water atomised for AM 17-4PH WA powder is developed to provide high sinterability and limit furnace maintenance.

#### **Equivalent materials:**

- >> AISI SAE 630
- >> UNS17400
- >> X5CrNiCuNb17-4
- >> 1.4542

For more information on forAM product line and other of Höganäs products, please contact your local sales representative.

### **Powder properties**

Chemical composition specification		
Element	Content, %	
Cr	15.5-17.5	
Ni	3.0-5.0	
Cu	3.0-5.0	
Si	<1.0	
Nb + Ta	0.15-0.45	
С	<0.07	
Mn	<1.0	
Fe	Balance	

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SU6600 3.0kV x1.00k SE	D.Öum

Powder properties specification		
D50	13-16 µm	
Tap Density	min. 4.35 g/cm <sup>3</sup>	

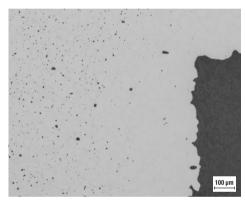
# **Typical mechanical properties**

Heat treatment	As sintered <sup>(1)</sup>	
Sintered density (%)	99	
UTS (MPa)	895	
YS (MPa)	710	
Elongation (%)	4	

<sup>(1)</sup> Sintering condition, 1,380  $^{\circ}\mathrm{C}$  for 2h in  $\mathrm{H_2}$ 

## Standard packaging:

22.7 kg metal drum with polymer liner 45.4 kg metal drum with polymer liner (Other tailored particle sizes and packaging are available under conditions)



forAM® 17-4PH WA sintered structure