

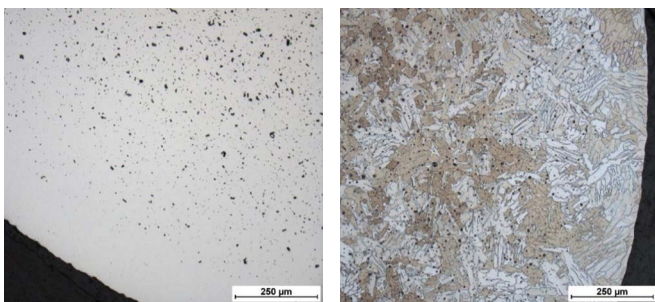


# forMIM® 17-4PH.00 – Powder

## Product information

17-4PH is the most common stainless steel material used by the metal injection molding industry. 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 17-4PH powder is developed to provide high sinterability and limit furnace maintenance.



forMIM 17-4PH.00 sintered **unetched** and **etched** microstructure at 7.7 g/cc density

### forMIM 17-4PH.00 – Specification

Finished product	17-4PH
<b>Chemistry</b>	
Cr	15.5-17.5 %
Ni	3.0-5.0 %
Mo	NA
Cu	3.0-5.0 %
Si	< 1.0 %
Nb+Ta	0.15-0.45 %
C	< 0.07 %
Mn	< 1.0 %
<b>Powder properties</b>	
TD g/cm <sup>3</sup>	min. 4.35 g/cc
d50	13-16 micron

Typical values as sintered				
Material	Density %	UTS MPa	YS MPa	Elongation %
17-4PH	99	895	710	4

Sintering conditions, 1.380°C, 2h, H<sub>2</sub>