

# Amperprint® 0711 17-4PH

Precipitation hardening stainless steel  
for laser powder bed fusion

## General material description

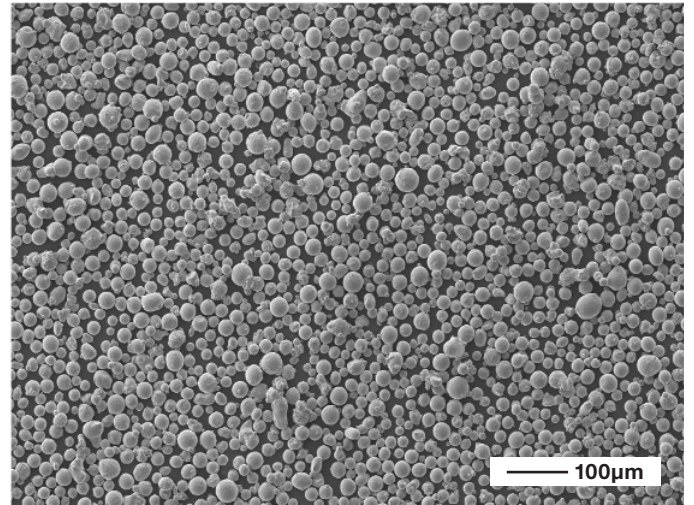
**Amperprint 0711** is a vacuum induction melted, argon gas atomized, and spherical powder for additive manufacturing. It is a martensitic precipitation hardening stainless steel with high strength and hardness, and good corrosion resistance. Typical applications in chemical process and oil equipment like flanges, valves and pumps, as well as aircraft parts.

## Equivalent materials:

- UNS17400
- SAE 630
- X5CrNiCuNb17-4
- 1.4542

**For more information on Amperprint and other Höganäs products, please contact your local sales representative.**

Chemical composition, % (typical values)	
Element	Content, %
Cr	16
Ni	4
Cu	4
Mn	0.06
Nb+Ta	0.3
Si	0.1
C	0.01
Fe	Balance



Typical powder properties		
Nominal particle range	15–45 µm (max 5% over- and undersize)	MPIF05, ASTM B214, ISO4497
Hall flow	18 s/50 g	MPIF03, ASTM B213, ISO4490
Apparent density	4.0 g/cc	MPIF04, ASTM B212, ISO3923/1

### Standard packaging:

30 kg (6x5 kg, 2.5 L PE bottles packed in cardboard box)

(Other tailored particle sizes and packaging are available under conditions)