



Amperprint® 0228 Hastelloy X

Advanced nickel superalloy for powder bed fusion

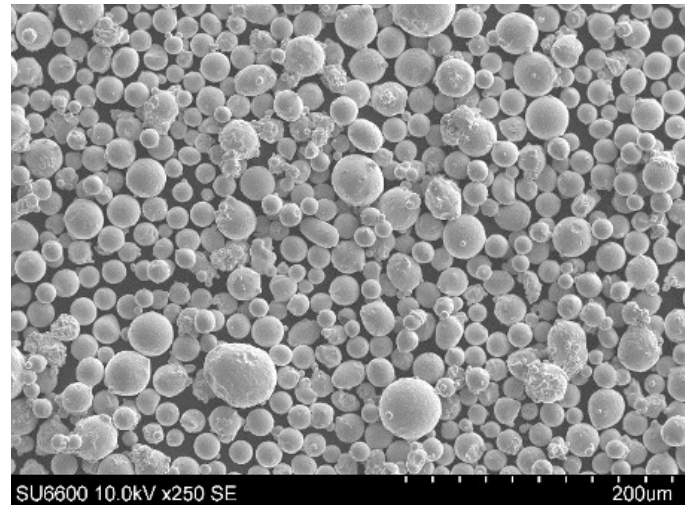
General material description

Amperprint 0228 is a vacuum induction melted, argon gas atomized, and spherical powder for additive manufacturing. The alloy is a Nickel-Chromium-Iron-Molybdenum based super alloy. Its exceptional corrosion resistance up to 1200 °C, high strength over a wide temperature range, and the excellent fabricability make the **Amperprint 0228** first choice for the chemical processing field, aerospace, and gas turbine engines.

Typical applications are, gas turbine engine components, aircraft parts, industrial furnace systems, nuclear engineering, chemical process applications, petrochemical process equipment.

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

Chemical composition, % (typical values)	
Element	Content, %
Cr	22
Fe	18
Mo	9
Co	1.5
W	0.7
C	0.07
Ni	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 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)