



Amperprint® 0152

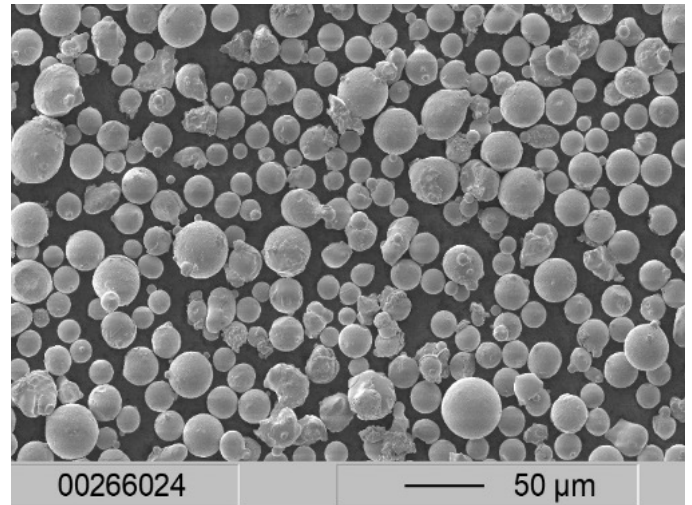
Similar to Ni-SA 939, advanced nickel superalloy for powder bed fusion

General material description

Amperprint 0152 is a vacuum induction melted, argon gas atomized, and spherical powder for additive manufacturing. The strengthening mechanism is a combination of precipitation hardening of gamma prime phases [Ni₃ (Al, Ti)] phases and the carbides, also solid solution strengthening. With a service temperature of up to 700 °C and a good balance of mechanical properties, like fatigue and creep is the **Amperprint 0152** a good candidate for high temperature applications like aerospace and land-based gas turbine components with high service temperatures.

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

Chemical composition, % (typical values)	
Element	Content, %
Cr	22
Co	19
Ti	4
Al	2
C	< 0.2
Nb	1
Ta	1.4
W	1.9
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	4.1 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)