



# Amperprint® 0233 Haynes® 282®

Advanced nickel superalloy for powder bed fusion

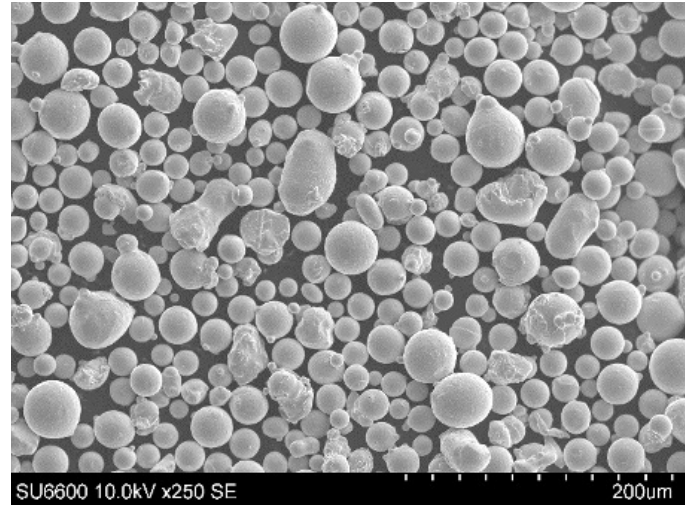
## General material description

**Amperprint 0233** is a vacuum induction melted, argon gas atomized, and spherical powder for additive manufacturing. The powder is produced under license from Haynes International, Inc. The alloy is a gamma-prime strengthened nickel-chromium-cobalt superalloy for high temperature applications and shows a good balance of creep strength up to 930 °C, thermal stability, weldability, and fabricability.

Some typical applications of **Amperprint 0233** are the combustors, turbines and nozzle components of gas turbines. Further applications are automotive turbocharger parts, advanced ultra-super critical boiler and steam turbines.

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

Chemical composition, % (typical values)	
Element	Content, %
Cr	19.5
Co	10
Mo	8.5
Ti	2.1
Al	1.5
C	0.05
B	0.005
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	4.2 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)