



Amperprint® 0153

Similar to Ni-SA 625, advanced nickel superalloy for powder bed fusion

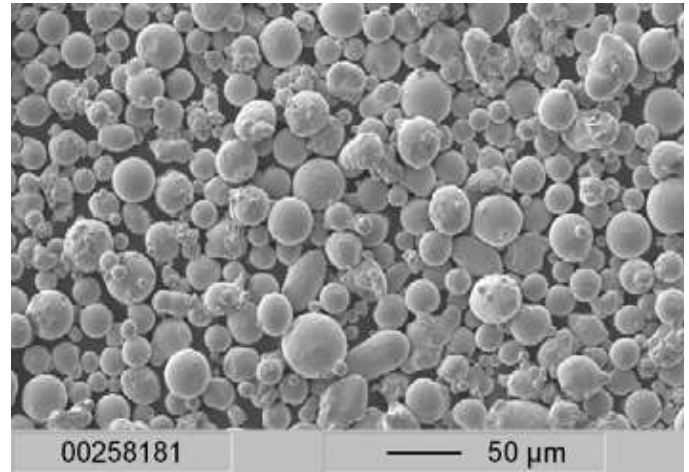
General material description

Amperprint 0153 is a vacuum induction melted, argon gas atomized, and spherical powder for additive manufacturing. **Amperprint 0153** is a low Carbon Nickel-Chromium based super alloy. Its exceptional corrosion resistance, its high strength over a wide temperature range, and its excellent processability make it first choice for the chemical processing field, aerospace, and off-shore applications.

Some typical applications of **Amperprint 0153** are, chemical process equipment, turbine engine components, marine industries, high temperature applications, fuel and exhaust systems, oil well, petroleum, and natural gas industry, nuclear reactors, pollution control.

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

| Chemical composition, % (typical values) | |
|--|------------|
| Element | Content, % |
| Cr | 21 |
| Nb | 4 |
| Mo | 9 |
| C | <0.010 |
| Ni | Balance |



| Typical powder properties | | |
|---------------------------|---------------------------------------|------------------------------|
| Nominal particle range | 15–45 µm (max 5% over- and undersize) | MPIF05, ASTM B214, ISO4497 |
| Hall flow | 17 s/50 g | MPIF03, ASTM B213, ISO4490 |
| Apparent density | 4.3 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)