

ADDITIVE MANUFACTURING POWDER

L718 API AMPO / NI-BASED ALLOYS

Available Product Shapes

15 - 45 µm

45 - 90 µm

Product Description

Additive manufacturing is the revolution in manufacturing technology! Especially in this promising segment, we as voestalpine BÖHLER Edelstahl can build on our extensive materials experience and expertise in the field of powder metallurgy.

Properties

Particle size distribution 15 - 45 µm:

D10[µm]	18 - 24
D50[µm]	29 - 35
D90[µm]	42 - 50
Apparent density*	≥ 3.5

* Measurement of particle size distribution is based on ISO 13322-2 (Dynamic image analysis methods);
Flowability and apparent density are based on DIN EN ISO 4490 resp. DIN EN ISO 3923-1.

Achievable mechanical properties of printed part after heat treatment*:

Tensile strength (Rm)	1340 ± 50 MPa
Yield strength (RP _{0.2})	1080 ± 30 MPa
Elongation (%)	29 ± 3
Hardness	44 ± 3 HRc
Impact toughness (ISO V)	63 ± 5 J (at -60°C)

*Mechanical strength according to heat treatment API6acra - 150ksi

Particle size distribution 45 - 90 µm:

Details on request

Applications

- > 3D Printing - direct metal deposition
- > Automotive
- > Comp. for Industrial Gas Compressors
- > Oth. Automotive components (Turbochargers, Piston Rings, Sensors, etc.)
- > 3D Printing - selective laser melting
- > Automotive Racing
- > CPI (inc. LNG, Urea)
- > Other Aerospace Comps.
- > Other Oil and Gas + CPI comps.
- > Powder for additive manufacturing
- > Aerospace
- > Civil and mechanical engineering
- > Oil & Gas
- > Other Components
- > Other Power Generation Components
- > Unknown Components Application

Chemical composition

C	Cr	Mo	Ni	Ti	Al	Nb	B	Fe
0.02	18.00	3.00	Rest	0.95	0.50	5.00	0.003	18.50

For more information see www.voestalpine.com/boehler-edelstahl

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ONE STEP AHEAD.