BÖHLER

BÖHLER L625
AMPO

ADDITIVE MANUFACTURING POWDER

L625 AMPO / NI-BASED ALLOYS

Available Product Shapes

15 - 45 µm	45 - 90 µm

Product Description

BÖHLER L625 AMPO is a non-magnetic, corrosion and scale-resistant nickel-base alloy. High toughness and strength from the lowest temperatures up to 1000 °C. Good printability.

Properties

Particle size distribution 15 - 45 µm:

D10[µm]	18 - 24
D50[µm]	29 - 35
D90[µm]	42 - 50
Apparent density*	≥ 3.5 g/cm³

Measurement of particle size distribution according to ISO 13322-2 (Dynamic image analysis methods);
* Measurement of apparent density is based on ASTM B964 resp. DIN EN ISO 3923-1 and relates to our typical measured values

Achievable mechanical properties of printed part after heat treatment*:

Tensile strength (Rm)	850 ± 50 MPa
Yield strength ($RP_{0,2}$)	550 ± 30 MPa
Elongation (%)	40 ± 5
Hardness	23 ± 5 HRc

*Mechanical strength according to heat treatment AMS5599

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.)
- Other Oil and Gas + CPI comps.
- Unknown Components Application
- 3D Printing - selective laser melting
- Automotive Racing
- CPI (inc. LNG, Urea)
- Other Aerospace Comps.
- Other Power Generation Components
- Aerospace
- Civil and mechanical engineering
- Oil & Gas
- Other Components
- Powder for additive manufacturing

Technical data

Material designation	
2.4856	SEL
N06625	UNS

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www.voestalpine.com/bohler-edelstahl

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ONE STEP AHEAD.

Chemical composition (wt. %)

C	Cr	Mo	Ni	Co	Ti	Al	Nb	Fe
0.05	21.5	9	≥ 58,00	≤ 1,00	0.2	0.2	3.65	≤ 5,00

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

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