BÖHLER

BÖHLER L625
AMPO

ADDITIVE MANUFACTURING POWDER

L625 AMPO / NI-BASED ALLOYS

Application Segments

Additive Manufacturing Application

Available Product Variants

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.

Process Melting

VIGA

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.
- 3D Printing - selective laser melting
- Automotive Racing
- CPI (incl. 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
Alloy 625	Market grade
N06625	UNS
NiCr22Mo9Nb	EN

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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

Powder Properties

Particle Size Distribution 15-45µm

Typical Values	D10	D50	D90
[µm]	18-24	29-35	42-50

Apparent density*	min. 3.7 g/cm^3

* Measurement of apparent density is based on ASTM B964 resp. DIN EN ISO 3923-1 and relates to our typical measured values

Mechanical Properties

With according Heat Treatment

Tensile strength (Rm) (MPa | ksi)	800 to 900 | 117 to 131
Yield strength ($RP_{0,2}$) (MPa | ksi)	520 to 580 | 76 to 85
Elongation (%)	35 to 45
Hardness (HRc)	18 to 28

Mechanical strength according to heat treatment AMS5599

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