

ADDITIVE MANUFACTURING POWDER

L625 AMPO / NI-BASED ALLOYS

Available Product Variants

15 - 45 µm	45 - 90 µm
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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 (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
Alloy 625	Market grade
N06625	UNS
NiCr22Mo9Nb	EN

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 [µm]	D10	D50	D90
	18-24	29-35	42-50

Apparent density* | min. 3.7 g/cm³

* 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

Physical Properties

For more information see <https://www.voestalpine.com/boehler-edelstahl/de/>

The data contained in this brochure is merely for general information and therefore shall not be binding on the company. We may be bound only through a contract explicitly stipulating such data as binding. Measurement data are laboratory values and can deviate from practical analyses. The manufacture of our products does not involve the use of substances detrimental to health or to the ozone layer.