

ADDITIVE MANUFACTURING POWDER

L625 AMPO / NI-BASED ALLOYS

Application Segments

Additive Manufacturing Application

Available Product Variants

15 - 45 µm

45 - 90 µm

Product Description

 $B\ddot{O}HLER\,L625\,AMPO$ 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
- > Components for Industrial Gas Compressors
- > Other Automotive Components (Turbochargers, Piston Rings, Sensors, etc.)
- > Other Oil and Gas + CPI components

- > 3D Printing selective laser melting
- > Motorsport industry
- > CPI (incl. LNG, Urea)
- > Other Aerospace Components
- Other Power Generation Components
- > Aerospace
- Civil and mechanical engineering
- > Oil & Gas / CPI
- > Other Components
- > Powder for additive manufacturing

Technical data

Material designation	
Alloy 625	Market grade
2.4856	SEL
NiCr22Mo9Nb	EN
N06625	UNS





ADDITIVE MANUFACTURING POWDER

BÖHLER L625 AMPO

L625 AMPO / NI-BASED ALLOYS

Chemical composition (wt. %)

С	Cr	Мо	Ni	Со	Ті	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/cm³

Mechanical Properties

With according Heat Treatment Tensile strength (Rm) (MPa) 800 to 900 Yield strength (RP_{0,2}) (MPa) 520 to 580 Elongation (%) 35 to 45 Hardness (HRc) 18 to 28

Mechanical strength according to heat treatment AMS5599

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.

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