

Powder for additive manufacturing

CHEMICAL COMPOSITION

AUBERT&DUVAL



Elements	Fe	Al	Cr	Nb	Ni	Мо	Ti	В	Co	Cu	Mn	Р	Si	С	S	0	Ν
Min	Rem.	0.2	17	4.75	50	2.8	0.65										
Max		0.8	21	5.5	55	3.3	1.15	0.006	0.1	0.3	0.35	0.015	0.35	0.08	0.015	0.03	0.03

STANDARDS

- European standards
 - NiCr19Fe19Nb5Mo3
 - 2.4668
- US Standards
 - UNS N07718
 - ASTM F3055

CHARACTERISTICS

Precipitation hardened, nickel-based superalloy powder produced by VIM Gas atomization with:

- Good resistance to high temperature oxidation
- Excellent mechanical properties up to temperatures around 700°C (1292°F)
- Generally used for parts working within the 600-700°C range (1112-1292°F)

QUALITY CERTIFICATES

- EN9100 accreditation
- Certified material test report

PARTICLE SIZE DISTRIBUTIONS

Laser Beam Melting (powder bed): 10-53 µm Electron Beam Melting (powder bed): 45-106 µm Directed energy deposition (LMD): 45-106 µm Customized particle size distributions upon request

DENSITY FOR LBM

Apparent density	4.1 g/cm $^{3} \pm 0.2$
Tap density	$5.0 \text{ g/cm}^3 \pm 0.2$

Heat treatment recommended on part: AMS 5662

POWDER MORPHOLOGY



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