

#### MIMETE® V X

FOMAS Group's metal powder plant has been specifically designed to serve the additive manufacturing market. A VIGA, Vacuum Induction melting Inert Gas (argon or nitrogen) Atomization, ensures high purity and spherical powders.

FOMAS Group's guarantees the properties of the standard powder "V X" set forth in the datasheet included in this page, which is available on stock.

PRODUCT	MIMETE® V X	According to UNS N06002 and EN 2.4665	
Nickel alloy characterized by great treatment, it shows good ductility.	reat oxidation, corrosion resistance and high temperature strength. After heat lity.		
Production process	Vacuum Inert Gas Atomization		
Packaging	10 kg plastic sealed bottle or 100 kg steel drum, with silica bags		

CHEMICAL PROPE	RTIES 1,2									
MIMETE® V X	Al	С	Со	Cr	Fe	Mn	Мо	Ni	Si	W
MIN	0	0,06	0,6	20,6	17,0	0	8,0	, ,	0	0,20
MAX	0,60	0,15	2,5	23,0	20,0	1,00	10,0	bal	1,00	1,00

<sup>&</sup>lt;sup>1</sup> Minor element ranges, even if not explicitly listed in the table, comply with both UNS and EN standards.

<sup>&</sup>lt;sup>2</sup> MIMETE® powders are supplied to a tighter specification to minimise batch-to-batch variations.

PHYSICAL PROPERTIES <sup>3</sup>		Sampling / Analysis Methods	
Nominal particle range	20-53 (max 5% over and under size)	ASTM B215 / ASTM B822	

 $<sup>^3</sup>$  Other standard particle ranges (i.e. 0-20, 50-100 and 50-150  $\mu m)$  available on request.

The production plant has also a testing laboratory accredited by ACCREDIA in compliance with the requirements of the ISO/IEC 17025 international standard.

Unless provided otherwise hereto, terms and conditions ruling the offer of  ${\it MIMETE}^{\it ®}$  apply.

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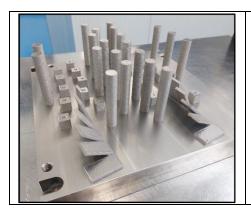
# MIMETE® V X

#### LEGAL DISCLAIMER

All data included in following pages are for reference purposes only. They are not sufficient for designing or certifying components and no warranties or guarantees are expressed against these results. However, psd and chemical composition of the powder lot 1250286C001 are compliant to allowable limits reported on page 1.

# INSPECTION CERTIFICATE TYPE 3.1 ACCORDING TO EN10204.

POWDER LOT	1250286C001
PRINTER - SOFTWARE	EOS M290 - EOSPrint 2.13 (HX_040_Performance_M291_2.15)
INERT GAS	Argon
RECOATER BLADE	HSS
LAYER THICKNESS	40 μm
VOLUME RATE	4.2 mm³/s (15.2 cm³/h)







PROPERTIES (as built, AVG)	Test Standard	ASTM B435-2016*	N X
Hardness HRB	UNI EN ISO 6508-1	NA	100
Hardness HBW	UNI EN ISO 6506-1	NA	275
Yield strength (vertical) [MPa]		NA	602
Tensile strength (vertical) [MPa]	ASTM E8-2024	NA	839
Elongation at break (vertical) [%]	ASTM E0-2024	NA	33,4
Reduction of area (vertical) [%]		NA	52,6

HEAT TREATMENT	According to AMS 2774H
Solution annealing at 1177°C (±14°C	) for 1h - rapid air cooling (AC).

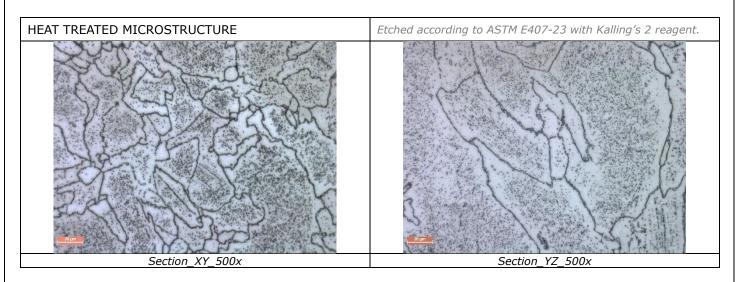
PROPERTIES (heat treated, AVG)	Test Standard	ASTM B435-2016*	N X
Hardness HRB	UNI EN ISO 6508-1	NA	96
Hardness HBW	UNI EN ISO 6506-1	NA	231
Yield strength (vertical) [MPa]		240	431
Tensile strength (vertical) [MPa]	ASTM E8-2024	655	753
Elongation at break (vertical) [%]		35	39,3
Reduction of area (vertical) [%]		NA	53,9

ASTM B435-2016: Standard Specification for UNS N06002, UNS N06230, UNS N12160, and UNS R30556 Plate, Sheet, and Strip1

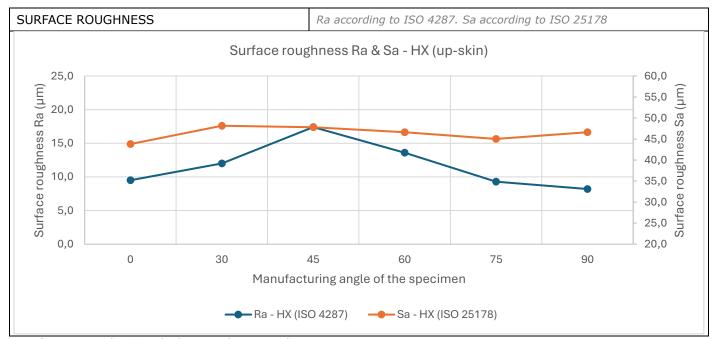
<sup>\*</sup>For reference only.



# MIMETE® V X



PROPERTIES	Test Standard	N X
Density [g/cm³]	UNI EN ISO 3369-2010	8,22
Avg. Defects [%]	ASTM E3-11(2025)	0,06



Manufacturing angle: 0° is the horizontal printing plane.