

MIMETE® M F51

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.

The datasheet describes the standard product and the properties guaranteed on powder available on stock.

PRODUCT	MIMETE® M F51	According to UNS S31803 and EN 1.4462
<i>Duplex stainless steel with relatively high content of Cr, Mo, and Ni. It shows high corrosion resistance, medium mechanical strength.</i>		
Production process	Vacuum Inert Gas Atomization	
Packaging	10 kg plastic sealed bottle or 100 kg steel drum, with silica bags	

CHEMICAL PROPERTIES ^{1,2}									
MIMETE® M F51	C	Cr	Fe	Mn	Mo	N	Ni	P	Si
MIN	0	21,0	bal	0	2,50	0,10	4,50	0	0
MAX	0,030	23,0		2,00	3,50	0,20	6,50	0,030	1,00

¹ Minor element ranges, even if not explicitly listed in the table, comply with both UNS and EN standards.

² MIMETE® powders are supplied to a tighter specification to minimise batch-to-batch variations.

PHYSICAL PROPERTIES ³		Sampling / Analysis Methods
Nominal particle range	50-150	ASTM B215 / ASTM B822

³ Other standard particle ranges (i.e. 0-20, 15-45 and 50-100 µm) 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.

For the above mentioned standard product, powder properties, presented on this page, are guaranteed by MIMETE Srl.

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