

forAM[®] Ti6Al4V G23 -25 EG

Titanium based powder for additive manufacturing

General material description

Höganäs forAM Ti6Al4V G23 EG is highly spherical powder for additive manufacturing. Ti6Al4V alloy offers high specific strength combined with high corrosion resistance and good biocompatibility. This makes it a good choice for many applications in aerospace, motorsports as well as medical industries.

Höganäs Ti based powders are produced via tungsten-free and crucible free manufacturing process, which excludes risk of heavy metal contamination in the material. High cleanliness level and good processability enables multiple recycling and therefore reducing total cost in production of Ti based components.

Applicable standards:

» ASTM F2924

Powder chemical composition complies with:

» ASTM B348

» ASTM F136

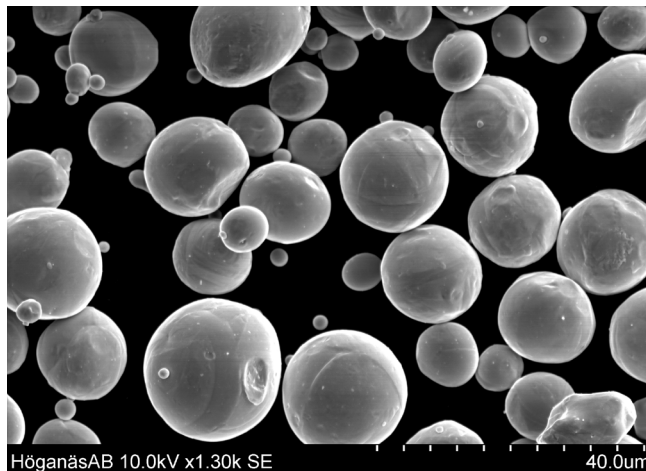
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Powder properties

Chemical composition	
Element	Content, %
Al	5.50-6.50
V	3.50-4.50
Fe	≤0.25
O	≤0.13
C	≤0.08
N	≤0.03
H	≤0.012
Y	≤0.005
Ti	Balance

Other elements: ≤0.40% total; ≤0.10% each



Typical powder size distribution		
Nominal particle range	-25 µm	MPIF05, ASTM B214, ISO4497
D10	10 µm	
D50	13 µm	
D90	20 µm	

Standard packaging:

Powders are packed in 25kg steel drums with polymer liner filled with Ar.