forAM® CP-Ti G1/G2 -45 EG

Commercially pure Ti powder for additive manufacturing

General material description

Höganäs forAM CP-Ti G1/G2 EG is highly spherical powder for additive manufacturing or sintering technologies. Commercially pure Ti has good strength to weight ratio combined with high elongation. It possess high corrosion resistance, very good cryogenic properties and good biocompatibility. Such properties combination make the material a good choice for components of chemical and cryomachinery as well the applications in medical and dental 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.

Powder chemical composition complies with:

- ASTM B348
- ASTM F67

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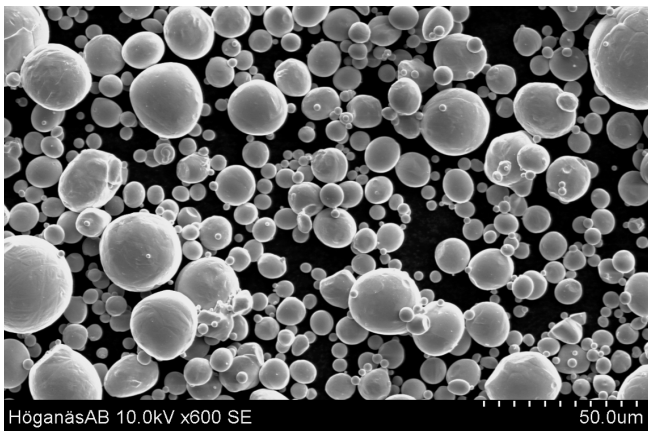
Powder properties

Chemical composition, (typical values)	
Element	**Content, %**
Ti	Balance
Fe	≤0.08
O	≤0.17 (0.11)
C	≤0.03
N	≤0.03
H	≤0.01

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



Typical powder size distribution		
Nominal particle range	-45 µm	MPIF05, ASTM B214, ISO4497
D10	11 µm	
D50	24 µm	
D90	40 µm	

Standard packaging:

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