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m4p Ti64 grade5

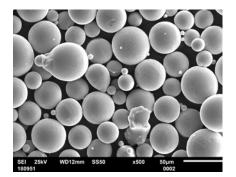
Metal powder for laser-based powder bed fusion

Description, properties and application

m4p™ Ti64 grade5 is a Ti6Al4V alloy, which is suitable for additive manufacturing of industrial components using the laser-based powder bed fusion process. The material has an excellent strength-to-weight ratio and, compared to other light metal alloys, a higher fracture toughness. In combination with its high corrosion resistance **m4p™ Ti64 grade5** is predestined for demanding applications.

The resulting applications range across industries from racing to aerospace. A uniform microstructure can be achieved by a downstream heat treatment, which relieves internal stresses caused by the process and increases the ductility of the material.

Powder characteristics



Chemical analysis [wt%]					
Element	Min			Max	
Al		5,50		6,75	
V		3,50		4,50	
Fe		<0,30			
0		<0,20			
Ti		Balance			
other limited element	s: N, C, H				

Particle size Laser PBF

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