



# AMtrinsic® Spherical TaW Powder for Additive Manufacturing

## Powders with the highest degree of processability

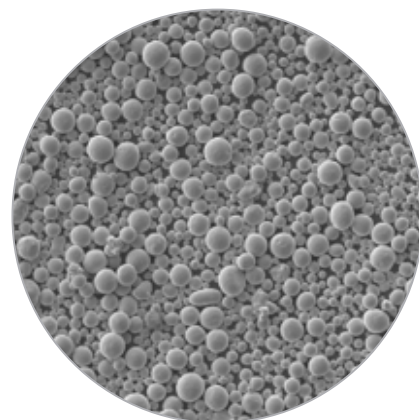
Right in step with the latest market developments and based on our long expertise in powder metallurgy, we have developed an atomized **AMtrinsic® Spherical TaW Powder** with properties required by different Additive Manufacturing Technologies. Our powder is characterized by: excellent flowability, high tap density, perfect spherical shape and narrow particle size distribution. **AMtrinsic® Spherical TaW Powders** are pre-conditioned for application in Laser Beam Melting (10-63 µm), Electron Beam Melting (63-105 µm) or according to customer requests.

## AMtrinsic® Spherical Ta-W Powder

Tantalum-tungsten alloys are widely used in aerospace and chemical industries due to their high temperature stability and excellent corrosion resistance. Currently available alloys include Ta-10W, Ta-5W and Ta-2.5W (wt%). Customized compositions can be offered upon request.

Physical Properties Ta-10W	Unit	-63 + 10 µm
Tap Density	g/cm <sup>3</sup>	10-12
Flow Rate/ 50g		
0.1 inch	s	<10
0.2 inch		<3
D <sub>10</sub>	µm	10-25
D <sub>50</sub>	µm	25-45
D <sub>90</sub>	µm	45-70

**AMtrinsic® Spherical Ta-10W**



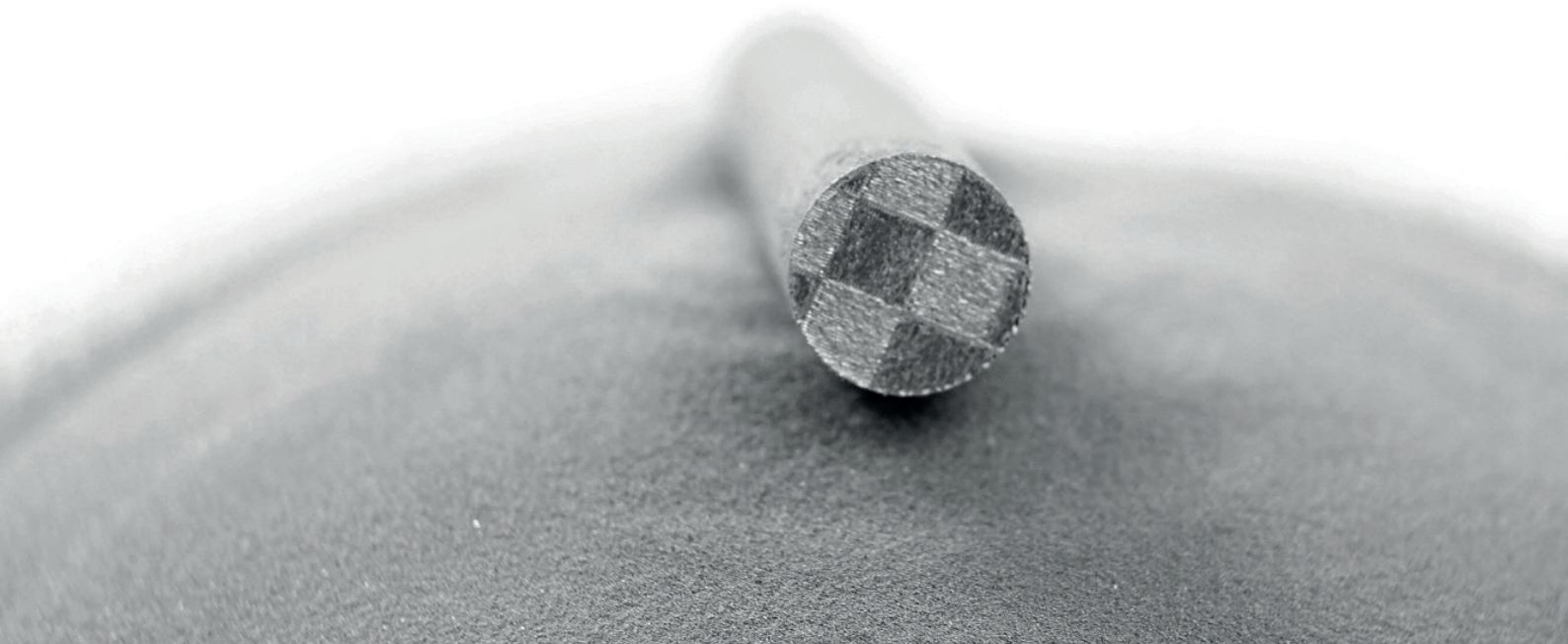
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Chemical Characteristics	Unit	Value
C	ppm	<50
H	ppm	<50
N	ppm	<50
O	ppm	<800
Nb	ppm	<100
Cr	ppm	<100
Fe	ppm	<100
Ni	ppm	<100
Hf	ppm	<100
Mo	ppm	<100
Zr	ppm	<100

### AMtrinsic® Spherical Ta-W

- Low O content
- Spherical shape
- Extremely low H, N values
- Very low C content
- Tap density independent of particle size

The combination of low oxygen content, spherical shape and excellent flowability makes our powders perfectly printable and contributes to achieve outstanding characteristics of 3D printed parts.



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TANIOBIS GmbH  
Im Schleeke 78 - 91  
38642 Goslar  
Germany  
amtrinsic@taniobis.com