

METAL SOLUTIONS

EOS Titanium Ti64

Material Data Sheet

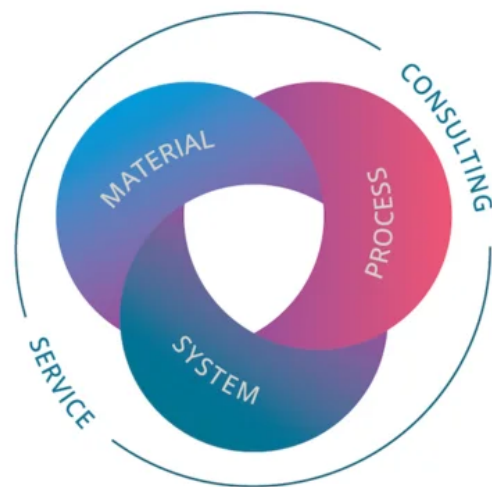
The EOS Quality Triangle

EOS uses an approach that is unique in the AM industry, taking each of the three central technical elements of the production process into account: the system, the material and the process. The data resulting from each combination is assigned a Technology Readiness Level (TRL) which makes the expected performance and production capability of the solution transparent.

EOS incorporates these TRLs into the following two categories:

- Premium products (TRL 7-9): offer highly validated data, proven capability and reproducible part properties.
- Core products (TRL 3 and 5): enable early customer access to newest technology still under development and are therefore less mature with less data.

All of the data stated in this material data sheet is produced according to EOS Quality Management System and international standards



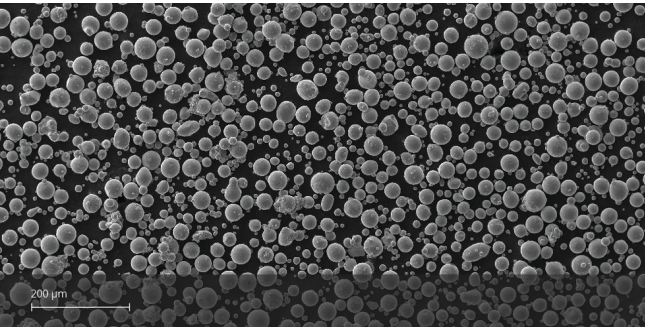
POWDER PROPERTIES

Powder Chemical Composition (wt.-%)

Element	Min.	Max.
Al	5.5	6.75
V	3.5	4.5
O	-	0.2
N	-	0.05
C	-	0.08
H	-	0.015
Fe	-	0.3
Y	-	0.005
Other Elements Each	-	0.1
Other Elements Total	-	0.4
Ti	Balance	

Powder Particle Size

GENERIC PARTICLE SIZE DISTRIBUTION	- 63 µm
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HEAT TREATMENT

Steps

2 hours at 800°C in Argon atmosphere.

HEADQUARTERS

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Status as of 03.09.2024. Subject to technical modifications. EOS is certified according to ISO 9001.

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