

# TA15

Titanium-based alloy ideal for heavy-duty components construction in aerospace

## Key Features:

- > Part offering high mechanical properties under high-temperature condition
- > Outstanding load-bearing capacity under stress
- > High specific strength
- > Good weldability with laser sintering technology

## Example Applications:

- > Heavy-duty parts in aerospace industry
- > Aircraft engine components
- > Thermal applications

### [ Technical Data ]

#### General Properties

<b>Density</b> <small>ISO3369</small>	≥4.45 g/cm <sup>3</sup>
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#### Mechanical Properties

(As built)

<b>Tensile Strength</b> <small>ISO6892-1</small>	≥ 1150 MPa
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<b>Yield Strength</b> <small>ISO6892-1</small>	≥ 980
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<b>Elongation after Fracture</b> <small>ISO6892-1</small>	≥ 5 %
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<b>Vickers hardness</b> <small>ISO6507-1</small>	≥330 HV5/15
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#### Mechanical Properties <sup>1</sup>

(Heat treated)

<b>Tensile Strength</b> <small>ISO6892-1</small>	≥ 1060 MPa
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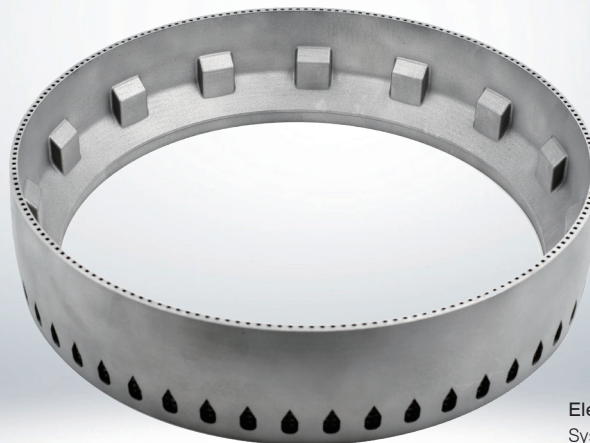
<b>Yield Strength</b> <small>ISO6892-1</small>	≥ 1000 MPa
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<b>Elongation after Fracture</b> <small>ISO6892-1</small>	≥ 8 %
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<b>Vickers hardness</b> <small>ISO6507-1</small>	n/a
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<sup>1</sup> For more information on heat treatment process, please contact us directly. Farsoon systems are open material platform. For special materials such as tungsten, tantalum and pure copper, please contact us with your inquiries or requirements.

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Electric Motor Rotor of Commercial Aircraft System: FS421M-2

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