Technical Data Sheet
for our Titanium FT-15 Alloy

Alloy Description

Titanium FT-15 was developed for applications involving extremely high operating temperatures and has proven its performance in numerous series-production applications. With a continuous service temperature of approximately 750°C, dimensional stability up to approximately 950°C, and excellent oxidation resistance, Titanium FT-15 is particularly suitable for use in high-performance exhaust systems and other thermally demanding applications. In addition, Titanium FT-15 offers outstanding resistance to corrosive environments as well as cyclic thermal and mechanical loading. Components manufactured from Titanium FT-15 provide high operational reliability and extended service life, even under the most demanding operating conditions.

Technical Data

Tensile Strength	**Yield Strength (0.2%)**	**Elongation**
min. 885 MPa	min. 320 MPa	min. 10 %
Bendability	**Fracture Toughness**	**Dimensional Stability**
High; warm forming	Very High	Verified to approx. 950°C

Chemical Composition

Specified values of alloying elements in weight percent

				Maximum Limits					
Al	Mo	V	Zr	Fe	O	C	N	H	Ti
5,5-6,8	0,5-2,0	0,8-2,5	1,5-2,5	0,30	0,16	0,13	0,05	0,015	Balance

Available Forms

- ✓ Sheet
- ✓ Tube (seamless)
- ✗ Welding Wire
- ✓ Drawing Components
- ✓ Tube (welded)
- ✓ Coil
- ✓ Plate
- ✓ Bar Stock
- ✗ Profiles

Manufacturing Processes

- ✓ Investment Casting
- ✓ Hydroforming (IHU)
- ✓ 3D Printing
- ✗ Extruded Profiles
- ✓ Machined Components
- ✓ Closed-Die Forging

Applications

- Vehicle Exhaust Systems
- Motorcycle Exhaust Systems
- Aerospace Components
- Underwater Applications

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