

S+D METALS

A BIBUS GROUP COMPANY



KSTI-1.2ASNEX

Titanium alloy for exhaust system

- Excellent oxidation resistance at elevated temperature even above 700°C
Applicable for high temperature and hydro-forming applications
- High strength at high temperatures:
 - + 0,2 proof strength: 4 times higher than Gr. 2 pure titanium at 700°C
 - + Tensile strength: 2, 3 times higher than Gr. 2 pure titanium at 700°C
- High fatigue strength at 700°C
- Formability comparable to Gr. 2. pure titanium
- Available
 - + Sheet 0,7 | 0,8 | 0,9 | 1,0 | 1,2 | 1,5 | 2,0 | 3,0 mm
 - + Tubes 19,05 mm OD to 114,3 mm OD
 - + Wire 1,0 | 1,2 | 3,0 mm

Chemical Composition

							mass%
Al	Si	Nb	N (max.)	C (max.)	H (max.)	Fe (max.)	O (max.)
0,3 - 0,7	0,3 - 0,6	0,1 - 0,3	0,05	0,08	0,013	0,20	0,15

High temperature oxidation resistance

Material	Weight gain for 200 hrs (mg/cm ²)	
	700°C	750°C
KSTI-1,2 ASNEX	1,57	2,56
Gr.2 pure titanium	5,38	13,9

Tensile properties

		0,2% proof strength (MPa)	Tensile strength (MPa)	Elongation (%)
Typical value	Longitudinal	320	438	36
	Transverse	396	439	40
Specification		min. 330	min. 390	min. 32

Our product manager is pleased to help you:

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