



KSTI-1.2ASNEX

TITANIUM ALLOY FOR EXHAUST SYSTEM



- Excellent oxidation resistance at elevated temperature even above 700°C
 - High strength at high temperatures:
 - + 0,2 proof strength: 4 times higher than Gr. 2 pure titanium at 700°C
 - + Tensile strength: 2 times higher than Gr. 2 pure titanium at 700°C
 - High fatigue strength at 700°C
 - Formability comparable to Gr. 2. pure titanium
 - Applicable for hydro-forming applications
 - Applicable for high temperature applications
 - Available Sheets/ Coil
0,7 | 0,9 | 1,0 | 1,2 | 1,5 | 2,0 | 3,0 mm
 - Available Tubes 19,05 mm OD to 114,3 mm OD
 - Available Wire 1,0 | 1,2 | 3,0 mm
- For more information please contact us via info@sd-metals.com

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-1,2ASN	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	33
	Transverse	396	439	40
Specification		min. 215	min. 340	min. 20