



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 mm
- Available tubes 30 mm OD to 88,9 mm OD

For more information please contact us via [info@sd-metals.com](mailto: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 <sup>2</sup> )	
	700°C	700°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