

## Titanium Exhaust Technology

**TI-TEK (UK) acting as agents for S+D Spezialstahl** have an established stock range of Titanium KSTi -1,2ASN which is to be introduced to the automotive exhaust market for both Cars and Bikes.

TITANIUM KSTI-1,2 ASN - The number 1 for all light weight Automotive and Performance Exhausts.

**Features:** • **Light weight** • **High strength at high temperature** • **Excellent oxidation resistance**

The Titanium Grade KSTI-1,2ASN is based on commercially pure Titanium, and stabilized with Al, Si and Nb.

The grade has been developed by Kobe Steel of Japan and has been successfully introduced to existing manufacturers of exhaust systems.

The properties of KSTI-1, 2ASN with high temperature oxidation resistance up to 700 - 800°C and excellent fatigue properties make it ideal for exhaust manufacture. The high oxidation resistance gives an added advantage of weight saving because it is possible to use thinner wall gauges than it was previously possible.

Despite the stabilizing elements that have been introduced, the formability of KSTI-1, 2ASN remains excellent with similar characteristics to that of Titanium Grade 2.

### Typical Analysis

	H2(ppm)	O(%)	N2(%)	Fe(%)	C(%)	Si(%)	Al(%)	Nb(%)	Ti
Min.						0,30	0,30	0,10	
Max.	13	0,15	0,05	0,20	0,08	0,60	0,70	0,30	bal

### Typical mechanical properties:

Tensile strength:	(N/mm) min : 340
0,2% yield strength:	(N/mm) min : 215
Elongation:	(%) min : 23

We currently stock tubes in 1.2mm wall thickness in sizes that range from:  
40mm up to 80mm OD although bespoke sizes can be made to order.

We also stock sheet in: • 0.9mm x 1250mm x 3000mm • 1.2mm x 1250mm x 3000mm



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