# **T64** Technical Datasheet



#### **Carbon Manganese Steel Tube**

## **Typical Applications**

- Undercarriage components
- Seating in aircraft
- Motorsport engine applications

#### **Product Description**

T64 is a carbon manganese steel with a high tensile strength and a hardness lower than that of T45. Despite this, it remains very lightweight and is the reason why it is so popular in aerospace and motorsport applications. The strength and weight ratio is very good.

## Key features:

- High strength
- Good hardness
- Carbon manganese

### Availability

Tube

#### Corrosion Resistance

Good

Chemical Composition (weight %)										
	Fe	С	Cr	Mn	Мо	Ni	Р	S	Si	
Min	Bal	0.17		1.3					0.10	
Max	Bal	0.25	0.25	1.7	0.1	0.4	0.04	0.04	0.35	

Mechanical Properties	
Tensile strength	550-750 N/mm <sup>2</sup>
Yield strength	460 N/mm <sup>2</sup>
Hardness	152-217 HB

## **Technical Assistance**

Our knowledgeable staff backed up by our resident team of qualified metallurgists and engineers, will be pleased to assist further on any technical topic.

UK Service Centre	s:	Quality & Testing:			
Smiths Belfast	02895 908 897	Smiths Leeds	0113 307 5167	1.	*
Smiths Biggleswade	01767 604 704	Smiths Manchester	0161 794 8650		
Smiths Birmingham	0121 728 4940	Smiths Norwich	01603 789 878	Quality Management	$(\mathbf{k})$
Smiths Bristol	0117 971 2800	Smiths Nottingham	0115 925 4801	Systems CERTIFIED	
Smiths Chelmsford	01245 466 664	Smiths Redruth	01209 315 512	CERTIFIED	TESTING
Smiths Gateshead	0191 469 5428	Smiths Verwood	01202 824 347		1930
Smiths Horsham	01403 261 981	Main Office	0845 527 3331	www. <b>smithmetal</b> .com	info@ <b>smithmetal</b> .com

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