

## **MATERIAL DATASHEET**

Title:

150M19

Material Grade: 150M19

Material Condition(s): Untreated / Normalised / Drawn

Surface Finish: As rolled / As forged / Bright drawn / Bright turned

Associated Standard: BS970

## Description:

A medium tensile, low carbon manganese steel which is readily weldable and possess good impact resistance. The material is capable of through hardening by quenching and tempering on limited sections but is more commonly supplied in the untreated or normalized condition. Machinability is similar to that of mild steel.

Typical applications: Welded structures, lifting gear, spindles

## 1. STEELMAKING

	<u>C</u>	<u>Si</u>	Mn	<u>S</u>	<u>P</u>	<u>Cr*</u>	<u>Ni*</u>	Mo*
Min	0.15	0.10	1.30					
Max	0.23	0.40	1.70	0.05	0.05	0.30	0.40	0.15

(\* denotes residual element)

## 2. TYPICAL MECHANICAL PROPERTIES

	Ten	sile and l	Impact test (KV)					
Test type	Yield (Re)	0.2 % proof	UTS (Rm)	Elong (A)	R of A (Z)	Hardness	Room Temp	
Unit		N/mm2	N/mm2	N/mm2	%	%	НВ	J
Normalized	Min	325		550	18		152	35
Normanzeu	Max						207	
Duarira	Min	600		750	7			
Drawn	Max							
O + T to condition /D/	Min	340		550	18		152	50
Q + T to condition 'P'	Max			700			207	

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