



Title:

ST52-3

Material Grade:ST52-3Material Condition(s):Untreated / NormalisedSurface Finish:As rolled

Associated Standard: DIN 17100

Description:

Readily weldable low carbon manganese steel with good impact resistance (also in sub-zero temperatures). This material is commonly supplied in the untreated or normalized condition. Machinability of this material is similar to that of mild steel.

Typical applications: Welded components for general engineering and construction

Conditions: no designation or +U – as rolled +N – normalised

## 1. STEELMAKING

	<u>C*</u>	Si	Mn	<u>S</u>	<u>P</u>
Min					
Max	0.22	0.55	1.6	0.04	0.04

(\* differs with section thickness)

## 2. <u>TYPICAL MECHANICAL PROPERTIES</u>

Test type			Tensile and hardness test (at room temperature)					Impact test (KV)			
			Yield (Re)	0.2 % proof	UTS (Rm)	Elong (A)	R of A (Z)	Hardness	Room Temp	0°C	-20°C
Variation	Sample dia	Unit	N/mm2	N/mm2	N/mm2	%	%	HB	J	J	J
ST52-3 + U	> 40 ≤ 63mm	Min	335		490	21				27	
		Max			630						
ST52-3 + N	> 40 ≤ 63mm	Min	335		490	21					27
		Max			630						