

DIN 17100 St37-3U steel plate,carbon structural steel

St37-3U steel plate, DIN 17100 St37-3U steel plate is a kind of carbon structural steel.

DIN 17100 St37-3U steel plate is characterised by a minimum yield strength of 170-235MPa and tensile strength of 340-510MPa,so St37-3U steel is mainly used in riveted, bolted, or welded construction of bridges and buildings.the following are DIN 17100 St37-3U steel plate's Chemical composition and mechanical properties

St37-3U steel plate Chemical analysis -% by mass*

Chemical elements	C≤ 16mm max	C>16mm max	Si max	Mn max	P max.	S max.
%by mass	0.17	0.17	--	1.40	0.045	0.045

St37-3U steel plate Mechanical properties

thickness	Yield StrengthReH[N/mm2] transv.min.	TensileStrengthRm[N/mm2]]transv.	Fracture Elongation[%]tra nsv. min.	Notch Impact Energy1)Ch Vcomplete samplelongitud. min [J]
t ≤ 16mm	235			Degree: 0 AV: 27J
t >16mm	225			
t < 3mm		360-510		
t ≥ 3mm		340-470		
Up to 1.5mm			16	
1.51-2.00mm			17	
2.01-2.50mm			18	
2.51-2.99mm			19	
≥ 3mm			24	

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