

DIN17100 St52-3N alloy steel

Key words :

St52-3N steel plate, under DIN17100 standard St52-3N steel plate, under DIN17100 standard, we can regard St52-3N steel plate as low alloy steel

St52-3N steel plate is one mainly of low alloy steel, St52-3N Steel plate according to this specification are mainly for use in welded, riveted and screwed structural components, They are not intended for heat treatment, apart from stress-relieving heat treatment and normalizing. They are usually accepted by countries from Asian. Mostly, St52-3 is equal to Q345B according to Chinese standard which are both belong to low alloy steel plates. They can be worked for statically and dynamically stressed constructions

DIN17100 St52-3N steel Chemical Composition % :

Main chemical composition in DIN17100 St52-3N steel : Carbon max 0.20, Silicium max 0.15-0.50, Manganese max 1.6, Phosphorus max 0.35, Sulphur max 0.035. More detailed information, please refer to the flowing table:

Chemical elements	C max	Si max	Mn max	P max	S max.	Nb max.	Al min	N max
%,by mass	0.20	0.15-0.50	1.60	0.035	0.035	0.02-0.04	0.02	0.009

DIN17100 St52-3N steel Mechanical Properties

DIN17100 St52-3N steel plate/sheet for low alloy steels, This kind of steel has very wide use. Because of the low Carbon content and without alloy element, carbon structural steel has the proper tensile strength, good toughness, plasticity, processing property. More detailed information about DIN17100 St52-3N steel Mechanical Properties , please refer to the following table:

Thickness mm	Yield Strength ReH [N/mm ²] transv. min.	Tensile Strength Rm [N/mm ²] transv.	Fracture Elongation [%] transv. min.
10-60	350	510	22
60-100	330	510	22

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