

### Carbon and low alloy steel EN10025 St52-3N steel plate

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

St52-3N steel plate is one mainly of Carbon and 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

Chemical analysis -% by mass\*

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

Mechanical properties

Thickness mm	Yield Strength $R_{eH}$ [N/mm <sup>2</sup> ] transv.min.	Tensile Strength $R_m$ [N/mm <sup>2</sup> ] transv.	Fracture Elongation[%] transv. min.
10-60	350	510	22
60-100	330	510	22

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