

S460Q S460QL S460QL1

Under standard EN 10025_6,high strength steel plate S460QL which is equal to Chinese steel grade Q460E. Both of these two steels have to be done Quenching and Tempering heat treatment,and do the low temperature impacting test at minus 40 centi degree.

Another relative high yield strength steel grade S460Q which is similar with steel grade Q460D according to GB standard.S460Q and Q460D are both structural steel plates which are mainly used for building plants and factories in industry.

Gnee steel can completely roll the steel grade S460QL and S460Q steel plate according to EN 10025_6.Now we list the values of S460Q steel property as belows:

According EN 10025-6		Comparison of steel grades			
		EU 137 (1983)	Germany	France	Sweden
S460Q	1.8908	FeE 460 V	-	-	
S460QL	1.8906	FeE460 V KT	TStE 460 V		E460T-
S460QL1	1.8916		-		

S460Q S460QL S460QL1 steel sheet Chemical analysis -% by mass*

Chemical elements	C	Si	Mn	P	S	N	B	Cr	Cu	Mo	Nb	Ni	Ti	V	Zr
	max.	max.	max.	max.	max.	max.	max.	max.	max.	max.	max.	max.	max.	max.	max.
%by mass				0,025	0,015										
L	0,20	0,80	1,70	0,020	0,010	0,015	0,005	1,50	0,50	0,70	0,06	2,0	0,05	0,12	0,15
L1				0,020	0,010										

S460Q S460QL S460QL1 steel plate Mechanical properties

Grade	Yield Strength ReH [N/mm2]	Tensile Strength Rm	Fracture Elongation[%]

<p>according to 10027-1 and 10260</p>	<p>EN according to EN CR 10027-2</p>	<p>>=3 <=50</p>	<p>>50 <=100</p>	<p>>100 <=150</p>	<p>>=3 <=50</p>	<p>>50 <=100</p>	<p>>100 <=150</p>	
<p>S460Q S460QL S460QL1</p>	<p>1.8908 1.8906 1.8916</p>	<p>460</p>	<p>440</p>	<p>400</p>	<p>550-720</p>	<p>500-670</p>	<p>17</p>	