

SAE J 403-AISI 1049 / 1050 steel plate high carbon steel

1049 / 1050 steel plate, SAE J 403-AISI 1049 / 1050 steel plate, under SAE J 403-AISI standard, we can regard 1049 / 1050 steel plate as high carbon steel.

1049 / 1050 steel plate is one mainly of high carbon steel, SAE J 403-AISI 1049 / 1050 steel plate is one of the higher carbon content (0.47-0.55) steels. It is equal to DIN C50, JUS Č.16301 and NF AF70C55.

<p>1049 / 1050 SAE J 403-AISI Number: 1.0540</p>	Comparison of steel grades	
	JUS	Č.16301
	DIN	C50
	BS	-
	GOST	-
	AISI	-
	UNI	-
	NF	(AF70C55)

Chemical analysis -% by mass * of C50 steel

Chemical elements	C	Si max	Mn	P max.	S max.	Cr max.	Mo max.	Ni max.	Cr+Mo+Ni max.
% by mass	0,47-0,55	0,40	0,60-0,90	0,045	0,045	0,40	0,10	0,40	0,63
Permissible deviation	± 0,02	+ 0,03	± 0,04	+ 0,005	+ 0,005	+ 0,05	+ 0,03	+ 0,05	-

At the option of the manufacturer the elements aluminium, titanium, vanadium and niobium may be added singly or in combination for grain size control purposes.

Elements not quoted in table shall not be added to the steel without the agreement of the purchaser, except for the purpose of finishing the heat.

Mechanical properties in the normalized and normalized and tempered conditions of C50 steel

Thickness of ruling section t_R

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Diameter in mm		$t_R \leq 100\text{mm}$	$100 < t_R \leq 250\text{mm}$	$250 < t_R \leq 500\text{mm}$	$500 < t_R \leq 1000\text{mm}$
$R_e \text{ min (N/mm}^2\text{)}$		320	290	-	-
$R_m \text{ min (N/mm}^2\text{)}$		610	590	-	-
A % min.	l-longitudinal	14	14	-	-
	tr -transverse	-	-	-	-
KV min * (J)	l-longitudinal	-	-	-	-
	tr -transverse	-	-	-	-

1N/mm²=1MPa

Heat treatment conditions

Quenching Temperature, °C	Cooling medium	Tempering Temperature, °C	Normalizing Temperature, °C
810 to 850	Oil or water	550 to 660	830 to 870

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