

**SAE J 403-AISI 1055 steel plate high carbon steel**

1055 steel plate, SAE J 403-AISI 1055 steel plate, under SAE J 403-AISI standard, we can regard 1055 steel plate as high carbon steel.

1055 steel plate is one mainly of high carbon steel, UNE36011 1055 steel plate Compared of steel grades JUS Č.1630, DIN C55, BS 070M55, GOST55 and AISI 1055 steel.

1055 SAE J 403-AISI Number:1.0535	Comparision of steel grades	
	JIS G 4051	S 55 C
	DIN 17200	C 55
	NFA 33-101	AF70-C 55
	UNI 7846	C 55
	BS 970	070 M 55
	EN 10083-2	C 55
	SAE J 403-AISI	1055

**Chemical Composition of C55K steel**

Grade	C(%)min-max	Si(%)min-max	Mn(%)min-max	P(%)max	S(%)max	Cr(%)min-max
1055	0.52-0.60	0.15-0.35	0.60-0.90	0.025	0.025	0.20-0.40

**Mechanical Properties of C55K steel**

Grade	Condition	Yield Strength R <sup>e</sup> (Mpa)	Tensile Strength R <sub>m</sub> (Mpa)	Elongation A5(%)	Hardness HRC	Quenching Temperature (°C)	Bendability	Nominal Thickness, t 1.95mm≤t≤10.0 mm	
								Rolled	Annealed
1055	Rolled	500	825	18	61	805	Min.recommended Bending radius (≤90°)	3.0×t	1.0×t
	Annealed	350	550	30	57	845			
	Water-quenched		2510						
	Oil quenched		2120						

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