

C55 – IS 7226: 1974– Technical Datasheet

1. Chemical & Mechanical Properties

Property	Value / Range
C (%)	0.50 – 0.60
Mn (%)	0.50 – 0.65
Si (%)	0.15 – 0.35
S max (%)	0.040
P max (%)	0.040
Hardness HRB (max, Annealed)	85.0
HV equiv (Annealed)	165
Hardness HRC (max, Annealed + Re-rolled)	35
HV equiv (Re-rolled)	350

2. Equivalent / Alternative Grades

Grade	Standard	C%	Mn%	Key Alloy	S max%	P max%	Key Mech
SAE 1055	ASTM A29	0.50 – 0.60	0.60 – 0.90	Si ≤ 0.35	0.040	0.040	690 – 870 (N); HB 200 – 255
JIS S55C	JIS G 4051	0.52 – 0.58	0.60 – 0.90	Si ≤ 0.35	0.040	0.040	735 – 880; HB 210 – 255
EN C55E (1.1203)	EN 10083-2	0.52 – 0.60	0.60 – 0.90	Si ≤ 0.40	0.025	0.025	700 – 950 (QT); HB 215 – 275

3. Common Applications

- Clutch plates, hand saws, higher-strength strip parts

4. Standard Conformance

Cold-rolled strip conforming to IS 7226 : 1974.

5. Disclaimer

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