

CR1 – IS 513: Part 1 (2016) – Technical Datasheet

1. Chemical & Mechanical Properties

Property	Value
C (%)	≤ 0.15
Mn (%)	≤ 0.60
Si (%)	≤ 0.03
P (%)	≤ 0.050
S (%)	≤ 0.055
Al (%)	—
Ti (%)	—
Nb (%)	—
YS (MPa, max)	280
UTS (MPa)	270 – 410
El (%)	28 (t = 1.6 mm)

2. Equivalent / Alternative Grades

Grade	Standard	C%	Mn%	Si%	P%	S%	Al%	Ti%	Nb%	UTS/YS/El/BH
JIS SPCC	JIS G 3141	≤ 0.15	≤ 0.60	≤ 0.03	≤ 0.050	≤ 0.050	—	—	—	UTS ≥ 270; YS ≤ 270; El 28
ASTM A1008 CS Type B	ASTM A1008	≤ 0.15	≤ 0.60	≤ 0.03	≤ 0.040	≤ 0.040	—	—	—	UTS ≥ 270; YS ≤ 275; El 28
EN 10130 DC01	EN 10130	≤ 0.12	≤ 0.60	≤ 0.03	≤ 0.045	≤ 0.045	—	—	—	UTS 270 – 410; YS ≤ 280; El 28

3. Common Applications

- General-purpose presswork

- Bending & mild forming

4. Standard Conformance

Cold-reduced sheets/strip conforming to IS 513 : Part 1 : 2016.

5. Disclaimer

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