

CR5 – IS 513: Part 1 (2016) – Technical Datasheet

1. Chemical & Mechanical Properties

Property	Value
C (%)	≤ 0.06
Mn (%)	≤ 0.40
Si (%)	≤ 0.03
P (%)	≤ 0.030
S (%)	≤ 0.030
Al (%)	0.010 – 0.050
Ti (%)	—
Nb (%)	—
YS (MPa, max)	180
UTS (MPa)	260 – 330
El (%)	42 (t = 1.6 mm)

2. Equivalent / Alternative Grades

Grade	Standard	C%	Mn%	Si%	P%	S%	Al%	Ti%	Nb%	UTS/YS/El/BH
JIS SPCG	JIS G 3141	≤ 0.04	≤ 0.30	≤ 0.02	≤ 0.020	≤ 0.020	0.010 – 0.050	—	—	UTS 260 – 330; YS ≤ 180; El 42
EN 10130 DC06	EN 10130	≤ 0.06	≤ 0.40	≤ 0.03	≤ 0.025	≤ 0.025	0.010 – 0.050	—	—	UTS 260 – 320; YS ≤ 170; El 42
ASTM A1008 EDDS + IF	ASTM A1008	≤ 0.04	≤ 0.35	≤ 0.03	≤ 0.020	≤ 0.020	0.010 – 0.050	—	—	UTS 260 – 330; YS ≤ 180; El 42

3. Common Applications

- Non-aging skins for automotive outers
- Severe stretch-forming

4. Standard Conformance

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

5. Disclaimer

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