



RAUNAQ
— TRUSTED STEEL —

CR3 – IS 513: Part 1 (2016) – Technical Datasheet

1. Chemical & Mechanical Properties

Property	Value
Mn (%)	≤ 0.50
C (%)	≤ 0.10
Si (%)	≤ 0.03
P (%)	≤ 0.040
S (%)	≤ 0.045
Al (%)	—
Ti (%)	—
Nb (%)	—
YS (MPa, max)	230
UTS (MPa)	270 – 390
El (%)	38 (t = 1.6 mm)

2. Equivalent / Alternative Grades

Grade	Standard	C%	Mn%	Si%	P%	S%	Al%	Ti%	Nb%	UTS/YS/El/BH
JIS SPCE	JIS G 3141	≤ 0.08	≤ 0.45	≤ 0.03	≤ 0.030	≤ 0.030	—	—	—	UTS 270 – 350; YS ≤ 230; El 38
ASTM A1008 DDS	ASTM A1008	≤ 0.10	≤ 0.50	≤ 0.03	≤ 0.030	≤ 0.030	—	—	—	UTS 270 – 350; YS ≤ 230; El 38
EN 10130 DC04	EN 10130	≤ 0.08	≤ 0.45	≤ 0.03	≤ 0.035	≤ 0.035	—	—	—	UTS 270 – 350; YS ≤ 210; El 38

3. Common Applications

- Deep-drawn & extra-deep cups
- Complex 2-piece enclosures

4. Standard Conformance

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

5. Disclaimer

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