

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

1. Chemical & Mechanical Properties

Property	Value
C (%)	≤ 0.005
Mn (%)	≤ 0.20
Si (%)	≤ 0.03
P (%)	≤ 0.020
S (%)	≤ 0.020
Al (%)	0.02 – 0.06
Ti (%)	0.08 – 0.18
Nb (%)	≤ 0.04
YS (MPa, max)	210
UTS (MPa)	270 – 350
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 IF (JSC270C)	JFS A2001	≤ 0.004	≤ 0.20	≤ 0.02	≤ 0.020	≤ 0.020	0.02 – 0.06	0.08 – 0.18	≤ 0.04	UTS 270 – 350; YS ≤ 210; El 42
EN DX54D+IF	EN 10292	≤ 0.08	≤ 0.50	≤ 0.03	≤ 0.030	≤ 0.030	0.02 – 0.06	0.10 – 0.18	≤ 0.05	UTS 270 – 360; YS 140 – 220; El 41
ASTM A1008 IF	ASTM A1008	≤ 0.008	≤ 0.40	≤ 0.03	≤ 0.020	≤ 0.020	0.02 – 0.06	0.10 – 0.18	≤ 0.05	UTS 270 – 340; YS ≤ 210; El 42

3. Common Applications

- Skin panels needing non-aging & good r-value
- Exposure body panels

4. Standard Conformance

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

5. Disclaimer

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