

IF340 – IS 513: Part 1 (2016) – Technical Datasheet

1. Chemical & Mechanical Properties

Property	Value
C (%)	≤ 0.01
Mn (%)	≤ 0.30
Si (%)	≤ 0.05
P (%)	≤ 0.020
S (%)	≤ 0.020
Al (%)	0.02 – 0.06
Ti (%)	0.10 – 0.20
Nb (%)	≤ 0.05
YS (MPa, min)	340
UTS (MPa, min)	390
El (%)	30

2. Equivalent / Alternative Grades

Grade	Standard	C%	Mn%	Si%	P%	S%	Al%	Ti%	Nb%	UTS/YS/El/BH
EN H340LAD+Z	EN 10292	≤ 0.10	≤ 1.70	≤ 0.50	≤ 0.090	≤ 0.045	≥ 0.020	≤ 0.15	≤ 0.09	UTS 410 – 510; YS 340 – 420; El 26
JIS JSC340W	JIS A2001	≤ 0.08	≤ 1.50	≤ 0.50	≤ 0.030	≤ 0.030	0.02 – 0.06	≤ 0.15	≤ 0.05	UTS 410 – 510; YS ≥ 340; El 28
ASTM A1008 HSLAS-F Grade 340	ASTM A1008	≤ 0.08	≤ 1.50	≤ 0.05	≤ 0.030	≤ 0.030	0.02 – 0.06	≤ 0.15	≤ 0.05	UTS 410 – 510; YS ≥ 340; El 26

3. Common Applications

- Strength-critical skin panels
- Inner structures

4. Standard Conformance

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

5. Disclaimer

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