

ISC510LA – IS 513 Part 2 (2016) - Technical Datasheet

1. Chemical & Mechanical Properties

Property	Value
C (%)	≤ 0.12
Mn (%)	≤ 1.60
Si (%)	≤ 0.50
P (%)	≤ 0.020
S (%)	≤ 0.020
Al (%)	0.02 – 0.06
Ti (%)	≤ 0.15
Nb (%)	≤ 0.09
Yield Strength YS (MPa min)	510
Tensile Strength UTS (MPa min)	570
Elongation A80 (%) min	18

2. Equivalent / Alternative Grades

Grade	Stand ard	C %	Mn %	Si %	P%	S%	Al %	Ti %	Nb %	YS (MPa)	UTS (MPa)
ASTM A1008 HS LAS-F Gr 510	ASTM A1008	≤ 0 .12	≤ 1 .60	≤ 0 .50	≤ 0. 020	≤ 0. 020	0.0 2 – 0. 06	≤ 0 .15	≤ 0 .09	510	570
EN 10268 H510 LA	EN 10 268	≤ 0 .12	≤ 1 .60	≤ 0 .50	≤ 0. 020	≤ 0. 020	0.0 2 – 0. 06	≤ 0 .15	≤ 0 .09	510	590
JIS JSC510	JFS A2 001	≤ 0 .12	≤ 1 .60	≤ 0 .50	≤ 0. 020	≤ 0. 020	0.0 2 – 0. 06	≤ 0 .15	≤ 0 .09	510	600

3. Common Applications

- Automotive structural members (rails, cross-members)
- Chassis and suspension components
- Press-formed high-strength panels

4. Standard Conformance

Conforms to IS 513 Part 2 (2016) – HSLA family.

5. Disclaimer

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