

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

All chemical compositions, mechanical properties, dimensions and other technical data presented on this page are provided by Raunaq Steels Trading Pvt. Ltd. for **general reference only**. While we endeavour to ensure that the information is as accurate and up-to-date as possible, **no warranty, express or implied, is given** as to its completeness, correctness or fitness for any particular purpose. Raunaq Steels Trading Pvt. Ltd. **accepts no liability** for any loss or damage arising directly or indirectly from the use of, or reliance upon, the information contained herein. For **authoritative and legally binding** specifications, users must refer to the **official publications** of the relevant standards—such as the BIS, ASTM, EN or JIS standards—available through their respective websites or published documents