

# ISC410LA – 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)	410
Tensile Strength UTS (MPa min)	470
Elongation A80 (%) min	18

## 2. Equivalent / Alternative Grades

Grade	Standard	C %	Mn %	Si %	P%	S%	Al %	Ti %	Nb %	YS (MPa)	UTS (MPa)
ASTM A1008 HS LAS-F Gr 410	ASTM A1008	≤ 0.12	≤ 1.60	≤ 0.50	≤ 0.020	≤ 0.020	0.02 – 0.06	≤ 0.15	≤ 0.09	410	470
EN 10268 H410 LA	EN 10268	≤ 0.12	≤ 1.60	≤ 0.50	≤ 0.020	≤ 0.020	0.02 – 0.06	≤ 0.15	≤ 0.09	410	490
JIS JSC410	JFS A2001	≤ 0.12	≤ 1.60	≤ 0.50	≤ 0.020	≤ 0.020	0.02 – 0.06	≤ 0.15	≤ 0.09	410	500

## 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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