RAUNAQ STEELS TRADING PRIVATE LIMITED

# ISC320LA – 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) | 320 |
| Tensile Strength UTS (MPa min) | 380 |
| Elongation A80 (%) min | 22 |

## 2. Equivalent / Alternative Grades

| Grade | Standard | C % | Mn % | Si % | P% | S% | Al % | Ti % | Nb % | YS (MPa) | UTS (MPa) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **ASTM A1008 HSLAS-F Gr 320** | ASTM A1008 | ≤ 0.12 | ≤ 1.60 | ≤ 0.50 | ≤ 0.020 | ≤ 0.020 | 0.02 – 0.06 | ≤ 0.15 | ≤ 0.09 | 320 | 380 |
| **EN 10268 H320LA** | EN 10268 | ≤ 0.12 | ≤ 1.60 | ≤ 0.50 | ≤ 0.020 | ≤ 0.020 | 0.02 – 0.06 | ≤ 0.15 | ≤ 0.09 | 320 | 400 |
| **JIS JSC320** | JFS A2001 | ≤ 0.12 | ≤ 1.60 | ≤ 0.50 | ≤ 0.020 | ≤ 0.020 | 0.02 – 0.06 | ≤ 0.15 | ≤ 0.09 | 320 | 410 |

## 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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