

ISC900M – IS 513 Part 2 (2016) – Martensitic- Technical Datasheet

1. Chemical & Mechanical Properties

| Property | Value |
|--------------------------------|-----------|
| C (%) | ≤0.25 |
| Mn (%) | ≤2.00 |
| 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) | 900 |
| Tensile Strength UTS (MPa min) | 1000 |
| Elongation A80 (%) min | 10 |

2. Equivalent / Alternative Grades

| Grade | Standard | C% | Mn % | Si% | P% | S% | Al% | Ti% | Nb % | UTS (MPa) | YS (MPa) |
|-------------|------------|-------|-------|-------|--------|--------|-------------|-------|-------|-----------|----------|
| EN Gr 900 | EN 10338 | ≤0.25 | ≤2.00 | ≤0.50 | ≤0.020 | ≤0.020 | 0.02 – 0.06 | ≤0.15 | ≤0.09 | 1000 | 900 |
| ASTM Gr 900 | ASTM A1008 | ≤0.25 | ≤2.00 | ≤0.50 | ≤0.020 | ≤0.020 | 0.02 – 0.06 | ≤0.15 | ≤0.09 | 1020 | 900 |
| JFS Gr 900 | JFS A2001 | ≤0.25 | ≤2.00 | ≤0.50 | ≤0.020 | ≤0.020 | 0.02 – 0.06 | ≤0.15 | ≤0.09 | 1030 | 900 |

3. Common Applications

- Crash-relevant structural parts
- Strength/weight optimised panels

4. Standard Conformance

Cold-reduced sheet/strip conforming to IS 513 Part 2 (2016).

5. Disclaimer

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