

# ISC980Y – IS 513 Part 2 (2016) – Dual-Phase- Technical Datasheet

## 1. Chemical & Mechanical Properties

| Property                       | Value     |
|--------------------------------|-----------|
| C (%)                          | ≤0.10     |
| 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)    | 980       |
| Tensile Strength UTS (MPa min) | 1040      |
| Elongation A80 (%) min         | 15        |

## 2. Equivalent / Alternative Grades

| Grade       | Standard   | C%    | Mn %  | Si%   | P%     | S%     | Al%         | Ti%   | Nb %  | YS (MPa) | UTS (MPa) |
|-------------|------------|-------|-------|-------|--------|--------|-------------|-------|-------|----------|-----------|
| ASTM Gr 980 | ASTM A1008 | ≤0.10 | ≤2.00 | ≤0.50 | ≤0.020 | ≤0.020 | 0.02 – 0.06 | ≤0.15 | ≤0.09 | 980      | 1040      |
| EN Gr 980   | EN 10338   | ≤0.10 | ≤2.00 | ≤0.50 | ≤0.020 | ≤0.020 | 0.02 – 0.06 | ≤0.15 | ≤0.09 | 980      | 1060      |
| JFS Gr 980  | JFS A2001  | ≤0.10 | ≤2.00 | ≤0.50 | ≤0.020 | ≤0.020 | 0.02 – 0.06 | ≤0.15 | ≤0.09 | 980      | 1070      |

## 3. Common Applications

- Automotive safety members
- Energy absorbing components
- Crash structures

## 4. Standard Conformance

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

## 5. Disclaimer

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