

C55 – IS 7226: 1974– Technical Datasheet

1. Chemical & Mechanical Properties

| Property | Value / Range | | | |
|--|----------------------|--|--|--|
| C (%) | 0.50 - 0.60 | | | |
| Mn (%) | 0.50 - 0.65 | | | |
| Si (%) | 0.15 - 0.35 | | | |
| S max (%) | 0.040 | | | |
| P max (%) | 0.040 | | | |
| Hardness HRB (max, Annealed) | 85.0 | | | |
| HV equiv (Annealed) | 165 | | | |
| Hardness HRC (max, Annealed + Re-rolled) | 35 | | | |
| | | | | |
| HV equiv (Re-rolled) | 350 | | | |

2. Equivalent / Alternative Grades

| Grade | Standard | С% | Mn% | Key Alloy | S max% | P max% | Key Mech |
|---------------------|------------|----------------|----------------|-----------|--------|--------|------------------------------------|
| SAE 1055 | ASTM A29 | 0.50 – 0.60 | 0.60 - 0.90 | Si ≤ 0.35 | 0.040 | 0.040 | 690 – 870 (N); HB 200 – 255 |
| JIS S55C | JIS G 4051 | 0.52 - 0.58 | 0.60 - 0.90 | Si ≤ 0.35 | 0.040 | 0.040 | 735 – 880; HB 210 – 255 |
| EN C55E (1.1203) | EN 10083-2 | 0.52 - 0.60 | 0.60 - 0.90 | Si ≤ 0.40 | 0.025 | 0.025 | 700 – 950 (QT); HB 215 – 275 |

3. Common Applications

• Clutch plates, hand saws, higher-strength strip parts

4. Standard Conformance

Cold-rolled strip conforming to IS 7226: 1974.

5. Disclaimer

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