

IS 10748 Grade 4-Technical Datasheet

1. Chemical & Mechanical Properties

| Property | Value |
|---------------------------------------|-------|
| C (max %) | 0.20 |
| Mn (max %) | 1.30 |
| P (max %) | 0.040 |
| S (max %) | 0.040 |
| C _{es} (max) | 0.45 |
| Tensile Strength σ_u (MPa min) | 430 |
| Yield Strength σ_y (MPa min) | 275 |
| Elongation A ₅ (%) | 20 |
| Bend Test (ID) | 3t |

2. Equivalent / Alternative Grades

| Grade | Standard | C max % | Mn max / range % | P max % | S max % | YS / TS / El% |
|------------------|----------|---------|------------------|---------|---------|------------------------|
| JIS G 3132 SPHT4 | JIS | 0.30 | 1.00 | 0.040 | 0.040 | YS —; TS 490; El 15-22 |

3. Common Applications

- High-strength precision tubes & closed sections
- Automotive suspension & structural parts demanding higher TS

4. Standard Conformance

Conforms to IS 10748 : 2004 (Second Revision) including Amendment 1 : 2012.

5. Disclaimer

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