

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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