

IS 10748 Grade 1-Technical Datasheet

1. Chemical & Mechanical Properties

Property	Value
C (max %)	0.10
Mn (max %)	0.50
P (max %)	0.040
S (max %)	0.040
Tensile Strength σ_u (MPa min)	290
Yield Strength σ_y (MPa min)	170
Elongation A_5 (%)	30
Bend Test (ID)	1t

2. Equivalent / Alternative Grades

Grade	Standard	C max %	Mn max / range %	P max %	S max %	YS / TS / El%
JIS G 3132 SPHT1	JIS	0.10	0.50	0.040	0.040	YS 270; TS 270; El 30
EN 10111 DD11	EN	0.12	0.60	0.045	0.045	YS 170-360; TS 440; El 22

3. Common Applications

- Low-pressure welded tubes and pipes
- Automotive cross-members & chassis sections
- General cold-forming applications (rolled & welded)

4. Standard Conformance

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

5. Disclaimer

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