

IS 10748 Grade 5-Technical Datasheet

1. Chemical & Mechanical Properties

Property	Value		
C (max %)	0.25		
Mn (max %)	1.30		
P (max %)	0.040		
S (max %)	0.040		
C _{es} (max)	0.45		
Tensile Strength σ_u (MPa min)	490		
Yield Strength σ_{γ} (MPa min)	310		
Elongation A ₅ (%)	15		
Bend Test (ID)	3t		

2. Equivalent / Alternative Grades

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

3. Common Applications

- • API line-pipe skelp, medium-grade structural tubing
- • Automotive longitudinal members, roll-formed profiles

4. Standard Conformance

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

5. Disclaimer

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