

HSFQ 250 – High Strength Formable Quality-Technical Data sheet

1. Chemical & Mechanical Properties

Property	Value				
C (%)	≤ 0.10				
Mn (%)	≤ 1.40				
Si (%)	0.25 - 0.35				
P (%)	≤ 0.030				
S (%)	≤ 0.030				
Al (%)	≥ 0.020				
Nb (%)	0.040 - 0.050				
Yield Strength (MPa min)	250				
Tensile Strength (MPa min)	430				
Elongation A80 (%)	30				

2. Equivalent / Alternative Grades

Grade	С%	Mn%	Si%	P%	S%	Al%	Nb%	YS (MPa)	UTS (MPa)	El (%)
IS 5986 Fe 310	≤0.22	≤1.60	≤0.35	≤0.035	≤0.035	_	_	310	440	23
EN 10111 DD12	≤0.08	≤0.60	≤0.03	≤0.04	≤0.04		—	280	440	32
ASTM A1011 CS Type B	≤0.15	≤0.90		≤0.04	≤0.04		_	275	270	28

3. Typical Applications

- Automotive chassis & cross-members
- Roll-formed tubes / poles
- High-strength structural profiles

4. Specification Note

Proprietary SAIL HSFQ grade supplied as hot-rolled or HRPO with cross-reference to IS 5986/10748 general requirements.

5. Disclaimer

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