

HSFQ 350 – High Strength Formable Quality – Technical Datasheet

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)	350
Tensile Strength (MPa min)	480
Elongation A80 (%)	28

2. Equivalent / Alternative Grades

Grade	C%	Mn%	Si%	P%	S%	Al%	Nb%	YS (MPa)	UTS (MPa)	El (%)
EN 10149-2 S355MC	≤0.12	≤1.50	≤0.50	≤0.025	≤0.02	—	—	355	430– 550	22
IS 5986 Fe 410	≤0.20	≤1.50	≤0.35	≤0.040	≤0.040	—	—	410	540	22
ASTM A1011 HSLAS Gr 50	≤0.23	≤1.35	—	≤0.04	≤0.04	—	—	345	450	22

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

All chemical compositions, mechanical properties, dimensions and other technical data presented on this page are provided by Raunaq Steels Trading Pvt. Ltd. for **general reference only**. While we endeavour to ensure that the information is as accurate and up-to-date as possible, **no warranty, express or implied, is given** as to its completeness, correctness or fitness for any particular purpose. Raunaq Steels Trading Pvt. Ltd. **accepts no liability** for any loss or damage arising directly or indirectly from the use of, or reliance upon, the information contained herein. For **authoritative** and **legally binding** specifications, users must refer to the **official publications** of the relevant standards—such as the BIS, ASTM, EN or JIS standards—available through their respective websites or published documents