

S650MC — EN 10149-2 (2013) - Technical Data sheet

1. Chemical & Mechanical Properties

C (%)	Mn (%)	Si (%)	P (%)	S (%)	Yield (MPa)	UTS (MPa)	Elong (%)
0.12	2.00	0.60	0.025	0.015	≥650	700-880	10 / 12

2. Equivalent / Alternative Grades

Grade	Standard	YS	UTS	C max (%)
Strenx 700MC	SSAB	700	950	0.12
ASTM A1018 HSLAS-F Grade 70	ASTM A1018	485	595	0.20

3. Common Applications

- Heavy crane booms
- Bridge sections
- High-strength machine frames

4. Standard Conformance

EN 10149-2 : 2013 — High-strength, thermomechanically rolled steels for cold forming

5. Disclaimer

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