

EN BS 970 EN8C – Technical Datasheet

1. Chemical & Mechanical Properties

C (%)	Mn (%)	S (%)	Yield (MPa)	Tensile (MPa)	Elongation (%)
0.42–0.50	0.50–0.80	0.10–0.25	≈390	700–850	≈16

2. Equivalent / Alternative Grades

Grade	Chem Note	Yield	UTS
AISI 1141	Free-cutting		UTS ≥585 MPa
DIN 44SMn28	Free-cutting		UTS 630–850 MPa
JIS SUM43	Free-cutting		UTS 650–880 MPa

3. Common Applications

- Lathe work
- Fasteners

4. Standard Conformance

BS 970-3:1991 080A46

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