

EN BS 970 EN8D – Technical Datasheet

1. Chemical & Mechanical Properties

C (%)	Mn (%)	P (%)	S (%)	Yield (MPa)	Tensile (MPa)	Elongation (%)
0.40–0.45	0.70–0.90	≤0.050	≤0.050	≥680	730–840	≈14

2. Equivalent / Alternative Grades

Grade	Chem Note	Yield	UTS
AISI 1045			UTS 700–850 MPa
DIN C45			UTS ≥600 MPa
JIS S45C			UTS ≥686 MPa

3. Common Applications

- High-strength shafts
- Automotive rods
- . Standard Conformance

4. Standard Conformance

BS 970-3:1991 080A42 (Bright-drawn)

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

