

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

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