

EN BS 970 EN8 – Technical Datasheet

1. Chemical & Mechanical Properties

C (%)	Mn (%)	Si (%)	P (%)	S (%)	Yield (MPa)	Tensile (MPa)	Elongation (%)
0.36–0.44	0.60–1.00	0.10–0.40	≤0.05	≤0.05	≥280	550–650	≥16

Grade	Chem Note	Yield	UTS
AISI 1040 (ASTM A29)	C 0.37–0.44	Yield ≥415 MPa	UTS ≥620 MPa
DIN C40 (EN 10083-2)	C 0.37–0.44	Yield ≥210 MPa	UTS ≥380 MPa
JIS S45C (G4051)	C 0.42–0.48	Yield ≥490 MPa	UTS ≥686 MPa

3. Common Applications

- General shafts
- Studs & bolts
- forgings

4. Standard Conformance

BS 970-1:1955 EN8 / BS 970-3:1991 080M40

5. Disclaimer

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