

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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