

EN BS 970 EN8A – Technical Datasheet

1. Chemical & Mechanical Properties

C (%)	Mn (%)	P (%)	S (%)	Yield (MPa)	Tensile (MPa)	Elongation (%)
0.37–0.45	0.60–1.00	≤0.040	≤0.040	≥280	550–650	≥16

2. Equivalent / Alternative Grades

Grade	Chem Note	Yield	UTS
AISI 1040	C 0.37–0.44	Yield ≥415 MPa	UTS ≥620 MPa
DIN C40	C 0.37–0.44	Yield ≥210 MPa	UTS ≥380 MPa
JIS S45C	C 0.42–0.48	Yield ≥490 MPa	UTS ≥686 MPa

3. Common Applications

- Welded fabrications
- Pins & studs

4. Standard Conformance

BS 970-3:1991 080A40

5. Disclaimer

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