

EN BS 970 EN8DM– Technical Datasheet

1. Chemical & Mechanical Properties

C (%)	Mn (%)	S (%)	Yield (MPa)	Tensile (MPa)	Elongation (%)
0.40–0.45	1.00–1.30	0.12–0.20	≈450	650–850	≈12

2. Equivalent / Alternative Grades

Grade	Chem Note	Yield	UTS
AISI 1144			UTS ≥585 MPa
DIN 44SMn28			UTS 630–850 MPa
JIS SUM43			UTS 650–880 MPa

3. Common Applications

- Precision shafts
- High-duty studs

4. Standard Conformance

BS 970-3:1991 212A42 (Bright-drawn FM)

5. Disclaimer

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