



BARCLAY & MATHIESON LTD

Bright Bar Products

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6. 080M40 (EN8)

Medium Carbon Steel

Material description:

A medium carbon, medium tensile steel. Used mainly for axles, spindles, studs, automotive and general engineering components. Suitable for heat treatment where extra strength is required. Material capable of through hardening by quenching and tempering but is commonly supplied in the untreated condition.

Size Range: Rounds 50mm – 600mm

Chemical Composition:

	C	Si	Mn	P	S
Min%	0.36	0.10	0.60		
Max%	0.44	0.40	1.00	0.050	0.050

Mechanical Properties Typical (minimums typically)

	UTS (N/mm ²)	Yield (N/mm ²)	Hardness HB	LRS (mm)
Normalised Test Piece	550	280	152/207	150
Normalised Test Piece	510	245	146/197	250

Supply Condition: As rolled, as forged & normalised

Alternative specifications: 080A42, SAE1040, C40

Please see our latest stocklist and contact us with your specific requirements.