



BARCLAY & MATHIESON LTD

Bright Bar Products

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9. 817M40 (EN24)

Nickel Alloy Steel

Material description:

A through-hardening steel capable of surface hardening by nitriding. Excellent resistance to wear and shock. Suitable for shafts, axles and machined parts requiring high strength.

Size Range: Rounds 10mm-80mm

Chemical Composition:

	C	Si	Mn	P	S	Mo	Cr	Ni
Min%	0.36	0.10	0.45			0.20	1.00	1.30
Max%	0.44	0.40	0.70	0.035	0.040	0.35	1.40	1.70

Mechanical Properties Typical (minimums typically)

	UTS (N/mm ²)	Yield (N/mm ²)	Hardness HB	Elongation (%)	Impact (J)
T-Condition	850/100	700	248-302	9	40

Supply Condition: Bright Cold Drawn

Alternative specifications: SAE4340, 34CrNiMo6, 40CrNiMo6

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