



BARCLAY & MATHIESON LTD

Bright Bar Products

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8. 709M40 (EN19)

Low Alloy Steel

Material description:

A through-hardening steel capable of surface hardening by nitriding. Suitable for applications where good tensile, ductility and shock resistance properties are important. May be induction hardened to give resistance wear. Applications include gears, shafts, rams and high tensile studs

Size Range: Rounds 10mm-80mm

Chemical Composition:

	C	Si	Mn	P	S	Mo	Cr
Min%	0.36	0.10	0.70			0.25	0.90
Max%	0.44	0.40	1.00	0.035	0.40	0.35	1.20

Mechanical Properties Typical (minimums typically)

	UTS (N/mm ²)	Yield (N/mm ²)	Hardness HB	Elongation (%)	Impact (J)
T-Condition > 6mm	850-1000	700	248/302	9	40

Supply Condition: Bright Cold Drawn

Alternative specifications: EN19, 42CoMo4

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