



BARCLAY & MATHIESON LTD

Bright Bar Products

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3. 230M07 (EN1A)

Low Carbon Steel Free-Cutting Steel

Material description:

A low carbon steel designed for high speed machining for multi turned parts. Controlled analysis to ensure consistent quality and maximum tool life. Swarf will form in small chips to prevent machine blockage

Size Range: Rounds 5mm to 101.6mm

Chemical Composition:

	C	Si	Mn	P	S
Min %			0.90		0.25
Max %	0.15	0.05	1.30	0.090	0.35

Typical Mechanical Properties (Minimum unless stated):

Hot Rolled & Cold Drawn	UTS (N/mm ²)	Yield (N/mm ²)	Elongation (%)	Hardness HB
>6mm – <13mm	480 Min	400 Min	6	
>13mm – <16mm	460 Min	380 Min	7	
>16mm – <40mm	430 Min	340 Min	8	
>40mm – <63mm	390 Min	280 Min	9	
63mm – 76mm	370 Min	240 Min	10	
Hot Rolled & Turned	UTS (N/mm ²)	Yield (N/mm ²)	Elongation (%)	Hardness HB
6mm – 100mm	360 min	215 min	22 Min	103 Min

Supply Condition: Bright Drawn or Turned dependant on size

Alternative specifications: 115SMn30, SAE1214, SAE1213

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



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