

MATERIAL DATASHEET

Title:

230M07

Material Grade: 230M07

Material Condition(s): Untreated / Normalised / Drawn

Surface Finish: As rolled / Bright drawn / Bright turned

Associated Standard: BS970

Description:

A non-alloyed free cutting steel suitable for applications where good machinability is the prime consideration. Typically used for the rapid production of parts which shall not be subject to high stresses in service.

Case hardening can be carried out but this steel is not recommended for general case hardening work and it is not intended for use where the hardened case is subject to severe impact in service.

This material should not be used for hollow parts which may be subject to internal pressure as the material does not possess good transverse properties.

Typical applications: Light duty studs, cycle components, intricate non-critical components

1. STEELMAKING

	<u>C</u>	<u>Si</u>	Mn	<u>s</u>	<u>P</u>	<u>Cr*</u>	<u>Ni*</u>	Mo*
Min		0.15	0.90	0.25				
Max	0.15	0.40	1.30	0.35	0.070	0.30	0.40	0.15

(* denotes residual element)

2. TYPICAL MECHANICAL PROPERTIES

	Ten	sile and l	Impact test (KV)					
Test type	Yield (Re)	0.2 % proof	UTS (Rm)	Elong (A)	R of A (Z)	Hardness	Room Temperature	
Unit	N/mm2	N/mm2	N/mm2	%	%	НВ	J	
As rolled Or Normalized	Min	215		360	22		103	
As folied Of Normalized	Max							
Drawn	Min	380		400	7			
Drawn	Max							

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