

MATERIAL DATASHEET

Title:

230M07 Pb

Material Grade: 230M07 Pb

Material Condition: Untreated/ Normalised/ Drawn

Surface Finish: As rolled/ Bright drawn/ Bright turned

Associated Standard: BS 970

Description:

A non-alloyed free cutting steel with excellent machinability. It is ideal for parts requiring significant material removal and close tolerances.

The addition of Lead (Pb) as well as high Sulphur and Phosphorus lubricates the tooling at minimal reduction of strength, when compared with non-leaded version of this grade. This grade is not recommended for welded applications.

Typical applications: Nuts, bolts and other volume machining parts

1. STEELMAKING

	<u>C</u>	Mn	<u>S</u>	<u>P</u>	<u>Cr*</u>	<u>Ni*</u>	Mo*	<u>Pb</u>
Min		0.90	0.25					0.12
Max	0.15	1.30	0.35	0.70	0.30	0.40	0.15	0.35

(* denotes residual element)

2. TYPICAL MECHANICAL PROPERTIES

		Tensile and hardness test (at room temperature)								
Test type		Yield	0.2%	UTS	Elong	R of A	Hardness			
		(Re)	proof	(Rm)	(A)	(Z)				
Unit		N/mm²	N/mm²	N/mm²	%	%	НВ			
Normalised	Min	215	-	360	22	-	103			
	Max	-	-	-	-	-	-			
Drawn ¹	Min	340	300	430	8	-	-			
	Max	-	-	-	-	-	-			

¹Mechanical property ranges vary with size, above example shows the property ranges for sections >16 ≤40mm

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