

TECHNICAL GUIDE

M2 HIGH SPEED STEEL




Steel Description

M2 is a medium alloyed high speed steel which has good machinability. The composition of M2 gives a good combination of toughness and hardness and is typically used for the manufacture of twist drills and engineers cutting tools.

BS 4659	COLOUR CODE	DESCRIPTION
BM2		High Speed Steel

TYPICAL ANALYSIS		MECHANICAL PROPERTIES	
Car	0.85	Tensile Strength N/MM2 Min Rm	
Sil		Yield Stress N/MM2 Min Rm	
Mang		Elongation A Min % on 5.65 $\sqrt{S_0}$	
Phos		Izod Min	
Sul		Kcv Min	
Chr	4.10	Proof Stress 0.2% N/MM2 Min	
Moly	5.00	Brinell Hardness	Ann'd 248max
Van	1.80		
Tung	6.40		

INTERNATIONAL SPECIFICATION COMPARISON	
BS 4659	BM2
GERMAN DIN	
FRENCH AFNOR	
SWEDISH SS	
AMERICAN SAE	M2
EUROPEAN STEEL NO.	1.3343
EUROPEAN STEEL NAME	
EUROPEAN STANDARD	

SIZE RANGE SUMMARY			
	Rounds	MM	45-81 mm dia
	Flats	IMP/MM	Contact sales with your required size.
	Squares	IMP/MM	Contact sales with your required size.

SEE STOCK RANGE FOR SPECIFIC SIZES.

QUICK VIEW SYSTEM	
MACHINEABILITY	40
WELDABILITY	Not recommended
HARDENABILITY	Good
SELECTION GUIDE AND USAGE EXAMPLES	Twist drills, reamers, cold forming tools