

## SI CHISEL STEEL

## **Steel Description**

SI is a shock-resisting tool steel which is suited for hot and cold work applications. The tungsten content of this steel grade confers fatigue resistance and the chromium gives depth of hardness and resistance to abrasion. SI steel is suitable for cold work tools subject to heavy shock and is typically used for shear blades and pneumatic chisels & punches.

BS 4659	COLOUR CODE	DESCRIPTION
BSI		Shock resisting steel

TYPICAL ANALYSIS		
Car	0.45/0.55	
Sil	0.70/1.0	
Mang	0.30/0.70	
Phos		
Sul		
Chr	1.20/1.70	
Moly		
Van	0.10/0.30	
Tung	2.0/2.50	

MECHANICAL PROPERTIES		
Tensile Strength N/MM2 Min Rm		
Yield Stress N/MM2 Min Rm		
Elongation A Min % on 5.65√SO		
Izod Min		
Kcv Min		
Proof Stress 0.2% N/MM2 Min		
Brinell Hardness	Ann'd 229max	

INTERNATIONAL SPECIFICATION COMPARISON		
BS 4659	BSI	
GERMAN DIN		
FRENCH AFNOR		
SWEDISH SS		
AMERICAN SAE	SI	
EUROPEAN STEEL NO.	1.2550	
EUROPEAN STEEL NAME		
EUROPEAN STANDARD		

SIZE RANGE SUMMARY			
	Rounds	ММ	20-120mm dia

SEE STOCK RANGE FOR SPECIFIC SIZES.

QUICK VIEW SYSTEM		
MACHINEABILITY	30	
WELDABILITY	Not recommended	
HARDENABILITY	Good	
SELECTION GUIDE AND USAGE EXAMPLES	Cold work tools subject to heavy shock e.g. chisels, punches	