

## **A2 TOOL STEEL**

## **Steel Description**

A2 is a 5% Chromium, air hardening, cold work tool steel and can be hardened to 57-62 HRC with good dimensional stability. The lower chromium content in A2 tool steel means that it does not provide the same wear and abrasion resistance shown by D2 and D3 tool steels. A2 tool steel delivers good toughness with medium wear resistance, is relatively easy to machine and will hold a good edge. Typical Applications include blanking tools, dies, gauges & shear blades.

BS 4659	COLOUR CODE	DESCRIPTION
BA2		Die Steel

CHEMICAL ANALYSIS		
Car	0.95/1.05	
Sil	0.40 Max	
Mang	0.30/0.70	
Phos		
Sul		
Chr	4.75/5.25	
Moly	0.90/1.10	
Van	0.15/0.40	

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 241 max	

INTERNATIONAL SPECIFICATION COMPARISON		
BS 4659	BA2	
GERMAN DIN	X210CR12	
FRENCH AFNOR		
SWEDISH SS		
AMERICAN SAE	A2	
EUROPEAN STEEL NO.	1.2080	
EUROPEAN STEEL NAME		
EUROPEAN STANDARD		

SIZE RANGE SUMMARY				
	Rounds	ММ	16-91MM Dia	
	Flats	IMP/MM	Contact sales with your required size.	
	Squares	IMP/MM	Contact sales with your required size.	

QUICK VIEW SYSTEM		
MACHINEABILITY	40	
WELDABILITY	Not recommended	
HARDENABILITY	Good	
SELECTION GUIDE AND USAGE EXAMPLES	Dies, Shear blades, Cutting Knives	

SEE STOCK RANGE FOR SPECIFIC SIZES.