

TECHNICAL GUIDE

D2 TOOL STEEL




Steel Description

D2 is a high carbon & chrome cold work tool steel where high wear resistance and toughness is required coupled with high compressive strength. Typical applications include: Press and blanking tools, swaging and thread rolling dies, gauges and tools requiring resistance to abrasion.

BS 4659	COLOUR CODE	DESCRIPTION
BD2		High carbon & chromium non distorting tool steel

CHEMICAL ANALYSIS		MECHANICAL PROPERTIES	
Car	1.40 / 1.60	Tensile Strength N/MM2 Min Rm	
Sil	0.60 max	Yield Stress N/MM2 Min Rm	
Mang	0.60 max	Elongation A Min % on 5.65√SO	
Phos	0.035 max	Izod Min	
Sul	0.035 max	Kcv Min	
Chr	11.5 / 12.5	Proof Stress 0.2% N/MM2 Min	
Moly	0.70 / 1.20	Brinell Hardness	Ann'd 255max
Van	0.25 / 1.00		

INTERNATIONAL SPECIFICATION COMPARISON	
BS 4659	BD2
GERMAN DIN	
FRENCH AFNOR	Z160CDV12
SWEDISH SS	
AMERICAN SAE	D2
EUROPEAN STEEL NO.	1.2379
EUROPEAN STEEL NAME	X155CrVMo12-1
EUROPEAN STANDARD	

SIZE RANGE SUMMARY			
	Rounds	IMP	5/8" - 4" dia
	Flats	IMP/MM	Contact sales with your required size.
	Squares	IMP/MM	Contact sales with your required size.

QUICK VIEW SYSTEM	
MACHINEABILITY	35
WELDABILITY	Not recommended
HARDENABILITY	Excellent
SELECTION GUIDE AND USAGE EXAMPLES	Good wear resistance tool steel and fairly tough

SEE STOCK RANGE FOR SPECIFIC SIZES.