


TECHNICAL GUIDE

BD2/Grade D2

BS 4659	COLOUR CODE		DESCRIPTION
GRADE D2	BD2		High carbon & chromium non distorting tool steel

CHEMICAL ANALYSIS	
Car	1.40 / 1.60
Sil	0.60 max
Mang	0.60 max
Phos	0.035 max
Sul	0.035 max
Chr	11.5 / 12.5
Moly	0.70 / 1.20
Van	0.25 / 1.00

MECHANICAL PROPERTIES	
Tensile Strength N/MM2 Min Rm	
Yield Stress N/MM2 Min Rm	
Elongation A Min % on 5.65vSO	
Izod Min	
Kcv Min	
Proof Stress 0.2% N/MM2 Min	
Brinell Hardness	ann'd 255max

INTERNATIONAL SPECIFICATION COMPARISON	
BS 4659	GRADE D2
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	

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

SIZES													
Size (ins. dia)	1	1.1/4	1.1/2	2	2.1/2	3							

Size (ins.)	2 x 1	4 x 1	4 x 1.1/4	4 x 1.1/2	5 x 2	6 x 1.1/2	8 x 1.1/2	8 x 2	10 x 1.1/2	10 x 2				
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