

TECHNICAL GUIDE

D6 TOOL STEEL




Steel Description

D6 is a high carbon, chromium and tungsten, air hardening alloy tool steel with excellent resistance to wear and abrasion. Its high carbon and chromium content means it has better hardening characteristics and dimensional stability than D3. Typical applications include: brick and ceramic die liner moulds and forming rolls.

BS 4659	COLOUR CODE	DESCRIPTION
BD6		Die Steel

CHEMICAL ANALYSIS		MECHANICAL PROPERTIES	
Car	2.00/2.20	Tensile Strength N/MM2 Min Rm	
Sil	0.20/0.40	Yield Stress N/MM2 Min Rm	
Mang	0.20/0.40	Elongation A Min % on 5.65√SO	
Phos		Izod Min	
Sul		Kcv Min	
Chr	11.50/12.50	Proof Stress 0.2% N/MM2 Min	
Moly		Brinell Hardness	Ann'd 255max
Tung	0.60/0.90		

INTERNATIONAL SPECIFICATION COMPARISON	
BS 4659	BD6
GERMAN DIN	X210CRW12
FRENCH AFNOR	
SWEDISH SS	
AMERICAN SAE	D6
EUROPEAN STEEL NO.	1.2436
EUROPEAN STEEL NAME	
EUROPEAN STANDARD	

SIZE RANGE SUMMARY			
	Rounds	IMP	3.1/4" - 6" 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	30
WELDABILITY	Not recommended
HARDENABILITY	Good
SELECTION GUIDE AND USAGE EXAMPLES	Blanking & shearing tools, drawing tools & dies, mandrels & press tools