

TECHNICAL GUIDE

6082 T6

Aluminium Description



Aluminium Alloy 6082 T6 is a medium strength alloy with excellent corrosion resistance and the highest strength of the 6000 series and is often referred to as a structural alloy. In plate form, 6082 T6 is the alloy most commonly used for machining. Typical applications include the production of automotive, marine, medical and defence components.

BS EN 573-3	COLOUR CODE	DESCRIPTION
HE 30	6082-T6	 General purpose Aluminium

CHEMICAL ANALYSIS	
Sil	0.70 / 1.30
Iron	0.50 max
Cu	0.10 max
Mang	0.40 / 1.00
Mg	0.60 / 1.20
Chr	0.25 max
Zn	0.20 max
Ti	0.10 max

INTERNATIONAL SPECIFICATION COMPARISON	
BS	HE 30
BS EN 573-3	6082-T6
GERMAN DIN	
FRENCH AFNOR	
SWEDISH SS	6082
AMERICAN SAE	
EUROPEAN STEEL NO.	
EUROPEAN STEEL NAME	AlSi1MgMn
EUROPEAN STANDARD	EN-AW-6082

QUICK VIEW SYSTEM	
MACHINEABILITY	250
WELDABILITY	Good
HARDENABILITY	Not applicable
SELECTION GUIDE AND USAGE EXAMPLES	A good allround general purpose aluminium

SIZE RANGE SUMMARY			
	Rounds	IMP	1/4" - 8" dia
		MM	8mm dia
	Squares	IMP	1/2" - 4" squ

SEE STOCK RANGE FOR SPECIFIC SIZES.