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Aluminium Alloys

BS 1470/4	Related International	Product Form	Mechanical Properties			General Characteristics					
			0.2% Proof Stress in bar	Tensile Strength in bar	Elongation % on 50mm	Cold Forming	Machining	Durability	Welding Inert Gas Shielded Arc (MIG/TIG)	Resistance Spot, Seam, Flash, Stud	
SIA-0 H4	1080A H4	Rolled		9.0 max	29-35	E	F	E	E	G	
		Rolled		9.5-12.0	5-8	V	F	E	E	G	
SIB-H4 TIB-H8	1050AH4	Rolled		10.0-13.5	4-8	V	F	V	E	V	
		Drawn		13.5		F	G	V	E	V	
EIE-H2		Extruded		8.5	13	V	F	V	E	V	
SIC-0 -H4 -H8 EIC-M TIC-H8	1200-0	Rolled		7.0-10.5	20-30	E	F	V	E	V	
		Rolled		11.0-14.0	3-6	V	F	V	E	V	
		Rolled		14.0	2-4	F	G	V	E	V	
		Extruded		6.0		E	F	V	E	V	
		Drawn		14.0	18	F	G	V	E	V	
NS3-H4	3103-H4	Rolled		14.0-17.5	3-7	V	F	V	E	E	
NS4-M -0 -H3 -H6 NT4-0	5251-M	Rolled	6.0	18.5	12-15	V	G	V	V	E	
		Rolled	13.0	16.0-20.0	18-20	V	G	V	V	E	
		Rolled	17.5	20.0-24.0	4-8	G	G	V	V	E	
		Rolled	6.0	22.5-27.5	3-5	G	V	V	V	E	
		Drawn		16.0-20.0	18	V	G	V	V	E	
NS41-H4 (AA05)	5005-H4	Rolled		15.5-18.5	7	G	G	V	V	V	
NS7-M -O -H2	5083-M	Rolled	13.0	27.5	12-16	G	E	V	E	E	
		Rolled	12.5	27.5-35.0	5-10	G	E	V	E	E	
		Rolled	23.5	31.0-37.5		F	E	F	E	E	
HE9-M -TB -TE -TF HT9-TF	6063-M	Extruded		10.0	12	E	G	G	V	V	
		Extruded	7.0	13.0	14	V	G	V	V	V	
		Extruded	11.0	15.0	7	G	G	G	V	V	
		Extruded	13.0-16.0	15.0-18.5	7	F	V	G	V	V	
		Drawn	18.0	20.0	8	F	V	G	V	V	
E91E HS30-TB -TF HE30-TB -TF HT30-TF	6101A-TF	Extruded	17.5	20.0	7	G	V	G	V	V	
		6080-TB	Rolled	11.5-12.0	20.0	15	G	V	V	V	V
			Rolled	24.0-25.5	29.5	8	F	E	G	V	V
		Extruded	10.5-12.0	17.0-19.0	14	G	V	V	V	V	
		Extruded	24.0-27.0	28.0-31.0	7	F	E	G	V	V	
Drawn	24.0-25.5	31.0	8	F	E	G	V	V			
HS15-TB -TF HE15-TB -TF	2014-TB	Rolled	24.5	38.5	13-14	G	E	P	N	E	
		Rolled	34.5-38.0	42.0-44.0	6-9	F	E	P	N	E	
		Extruded	23.0-25.0	37.0-39.0	10	G	E	P	N	E	
		Extruded	37.0-43.5	43.5-48.0	6	F	E	P	N	E	
FC1-TD -TF	2011-TD	Extruded	23.0-25.5	29.5-31.0	6	F	E	P	N	N	
		Extruded	29.5-31.0	29.5-31.0	8	F	E	P	N	N	

ICB - MMAA - JAN 08 - P1

Key to tables

O = Annealed soft
 M = As manufactured
 H4 = Half hard
 H8 = Hard
 TE = Precipitation treated only
 TB = Solution treated only
 TF = Solution and precipitation treated
 TD = Solution treated, cold worked and naturally aged

Materials are graded as follows

E = Excellent
 V = Very Good
 G = Good
 F = Fair
 P = Poor
 N = Not Recommended