

SPECIFICATIONS MECHANICAL PROPERTIES

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BS 1470/4		Related International		Available Form	0.2% Proof Stress hbar	Tensile Strength hbar	Elongation % on 50mm	Typical Hardness Brinell
S1A	O	1080A	O	Sheet	–	9.0 max	29 – 35	19
	H4		H4	Sheet	–	0.5 – 12.0	5 – 8	29
S1B	H4	1050A	H4	Sheet	–	10.0 – 13.5	4 – 8	30
T1B	H8		H8	Tube	–	13.5	–	30
E1E	H2		H2	Extrusion	–	8.5	13	24
S1C	O	1200	O	Sheet	–	7.0 – 10.5	20 – 30	22
	H4		H4	Sheet	–	11.0 – 14.0	3 – 6	34
	H8		H8	Sheet	–	14.0	2 – 4	42
E1C	M		M	Extrusion	–	6.0	18	23
T1C	H8		H8	Tube	–	14.0	–	34
NS3	H4	3103	H4	Sheet	–	14.0 – 17.5	3 – 7	44
NS4	M	5251	M	Plate	–	18.5	12 – 15	53
	O		O	Sheet	6.0	16.0 – 20.0	18 – 20	45
	H3		H3	Sheet	13.0	20.0 – 24.0	4 – 8	62
	H6		H6	Sheet	17.5	22.5 – 27.5	3 – 5	70
NT4	O		O	Tube	6.0	16.0 – 20.0	18	45
NS41 (AAQ5)	H4	5005	H4	Sheet	–	15.5 – 18.5	7	–
NS8	M	5083	M	Plate	13.0	27.5	–	77
	O		O	Sheet	12.5	27.5 – 35.0	12 – 16	72
	H2		H2	Sheet	23.5	31.0 – 37.5	5 – 10	95
HE9	M	6063	M	Extrusion	–	10.0	12	35
	TB		T4	Extrusion	7.0	13.0	14	55
	TE		T5	Extrusion	11.0	15.0	7	65
	TF		T6	Extrusion	13.0 – 16.0	15.0 – 18.5	7	80
HT9	TF		T6	Tube	18.0	20.0	8	80
E91E	TF	6101A	T6	Extrusion	17.5	20.0	7	70
HS30	TB	6082	T4	Sheet	11.5 – 12.0	20.0	15	65
	TF		T6	Sheet	24.0 – 25.5	29.5	8	100
HE30	TB		T4	Extrusion	10.5 – 12.0	17.0 – 19.0	14	65
	TF		T6	Extrusion	24.0 – 27.0	28.0 – 31.0	7	100
HT30	TF		T6	Tube	24.0 – 25.5	31.0	8	100
HS15	TB	2014	T4	Sheet	24.5	38.5	13 – 14	115
	TF		T6	Sheet	34.5 – 38.0	42.0 – 44.0	6 – 9	135
HE15	TB		T4	Extrusion	23.0 – 25.0	37.0 – 39.0	10	115
	TF		T6	Extrusion	37.0 – 43.5	43.5 – 48.0	6	135
FC1	TD	2011	T3	Extrusion	23.0 – 25.5	29.5 – 31.0	6	95
	TF		T6	Extrusion	19.5 – 22.5	29.5 – 31.0	8	100

DESIGNATION NON-HEAT TREATED ALLOYS

M	As manufactured	H4	Half hard	T4	Solution treated and naturally aged
O	Soft	H6	Half hard	T5	Precipitation treated
H2	Quarter Hard	H8	Fully hard	T6	Solution and precipitation treated
H3	Quarter Hard			TD	Solution treated, cold worked and naturally aged