

Technical Data Sheet # 2 : Some Alloys and Their Properties in Different Temper

Alloy	Temper	Reference	Tensile Strength (Kgf/mm ²)	0.2% Proof Stres (Kgf/mm ²)	% E on 50mm G.L (min)	Conductivity at 20°C (min)	Bending Test
IS19000 / AA 1100	M/F*	IS AA	6.62 (typ) -	- -	18 -	- -	- -
	O	IS AA	11.21 max 9.17 (max)	- -	25 35	- -	- -
IS19500 / AA 1050	M/F*	IS AA	6.62 (typ) -	1.83 (typ) -	23 -	- -	- -
	O	IS AA	10.19 max 7.74 (typ)	- 2.85 (typ)	25 39	- -	- -
IS19501 / AA 1350	M/F*	IS AA	6.11 (typ) -	- -	25 -	60 -	1T bending upto 12 mm thickness -
	O	IS AA	- 8.46 (typ)	- 2.85 (typ)	- 23	- 61	- -
IS 24345 / AA 2014	M/F*	IS	15.29 (min)	9.17 (min)	12	-	-
		AA	-	-	-	-	-
IS 31000 / AA 3003	M/F*	IS AA	9.68 (min) -	- -	16 -	- -	- -
	O	IS AA	13.25 (max) 11.21 (Typ)	- -	20 30	- -	- -
IS 52000 / AA 5052	M/F*	IS AA	16.30 (min) -	7.13 (min) -	14 -	- -	- -
	O	IS AA	24.46 (max) 24.46 (typ)	- -	18 18	- -	- -
IS 63400 / AA 6063	M/F*	IS	11.21 (min)	-	13	-	-
		AA	-	-	-	-	-
	O	IS	13.25 (max)	-	18	-	-
		AA	9.17 (typ)	-	18	-	-
	W/T4	IS	14.27 (min)	8.15 (min)	14	-	-
		AA	17.53 (typ)	9.17 (typ)	14	-	-
P	IS	15.29 (min)	11.21 (min)	7	-	-	
	AA	18.96 (typ)	14.78 (typ)	7	-	-	
WP	IS	18.85 (min)	15.29 (min)	7	-	-	
	AA	24.56 (typ)	21.81 (typ)	7 (typ)	-	-	
IS 64430/ IS 6351	M/F*	IS	11.21 (min)	8.15 (min)	12	-	-
		AA	-	-	-	-	-
	O	IS	15.29 (max)	-	16	-	-
		AA	-	-	-	-	-
W/T4	IS	18.85 (min)	12.23 (min)	14	-	-	
	AA	25.28 (typ)	15.49 (typ)	20 (typ)	-	-	
WP	IS	31.60 (min)	27.52 (min)	7	-	-	
	AA	31.60 (typ)	28.84 (typ)	7	-	-	
IS 65032/ IS 6061	M/F*	IS	11.21 (min)	5.10 (min)	12	-	-
		AA	-	-	-	-	-
	O	IS	15.29 (max)	11.72 (max)	16	-	-
		AA	15 (typ)	11 (typ)	16	-	-
	W/T4	IS	18.85 (min)	11.72 (min)	14	-	-
		AA	18 (min)	11 (min)	16	-	-
WP	IS	28.54 (min)	23.95 (min)	7	-	-	
	AA	-	-	-	-	-	
IS 63401/ IS 6101	WP	IS, Range-1	17.33 (min)	13.76 (min)	12	56.5	1xT from 3.00 upto and including 9.50 mm thickness
		IS, Range-2	20.39 (min)	17.33 (min)	10	55	2xT from 3.00 upto and including 9.50 mm thickness
		AA	20.38 (typ)	17.53 (typ)	12	56	-

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