

Radiatronics NDT, Inc.

Hardness-Conductivity for Aluminum



Alloy	Temper	Electrical conductivity 20°C. (68°F) % IACS	Hardness Rockwell HRB *	Comment
1060	0	62	19 HB	a
	H18	61	35 HB	a
1100	0	59	23 HB	a
	H18	57	44 HB	a
1350	All	62	--	a
2004	T62	38 - 42	55 - 75	b1
2011	T3	30	95 HB	a
	T8	45	100 HB	a
2014	0	48.5 - 51	<61 HRE	b2
	T3XX	31.5 - 35	68 - 80	b1
	T4XXX	31.5 - 35	68 - 80	b1
	T6XXX	35 - 40	78.5 - 89.5	b1
2017	0	48.5 - 51.0	<51 HRE	b2
	T4XXX	31.5 - 35	68 - 80	b1
	T61	40	120 HB	a
2018	T61	40	120 HB	a
2024	0	45.5 - 49.0	<64 HRE	b2
	T3XXX	28.5 - 32.0	63 - 83.5	b1
	T4X	28.5 - 32.0	63 - 83.5	b1
	T6X	36 - 40	72 - 86	b1
	T8XXX	38 - 42	74 - 86	b1
	T6,T81,T8 61	38	130 HB	a
2025	T6	40	110 HB	a
2036	T4	41	--	a
2090	T3X	16.0 -18.5	34 - 49	b1
	T83X	16.0 -18.5	80 - 90	b1
	T86X	16.0 -18.5	80 - 90	b1
2117	T4	40	70 HB	a
2124	T8X	38 - 42	74 - 86	b1
2218	T72	40	95 HB	a
2219	0	44 - 49	<71 HRE	b2
	T3XXX	26 - 31	>64.5	b1
	T37	27 - 31	>65.5	b1
	T4X	28 - 32	>61	b1
	T6X	32 - 35	>65.5	b1
	T8XXX	31 - 35	>73	b1
	T87	31 - 35	>77	b1

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2224	T3511	29.5 - 33.5	70 - 83.5	b1
2334	T39	29 - 32	77 - 86	b1
2618	T61	37	115 HB	a
3003	0	44.5 - 50.5	<66 HRH	b1
	H12	42	35 HB	a
	H14	41	40 HB	a
	H18	40	55 HB	a
3004	All	42	45 HB	a
3105	All	45	--	a
4032	0	40	--	a
	T6	35	120 HB	a
4043	0	42	--	a
4045	All	45	--	a
4343	All	42	--	a
5005	All	52	--	a
5050	All	50	--	a
5052	0	34 - 37	<70 HRE	b2
	H34	34 - 37	>66 HRE	b1
5056	0	29	65 HB	a
	H38	27	100 HB	a
5083	0	--	<76 HRE	b2
	HXX	--	>80 HRE	b1
5086	All	31	--	a
5154	0		<51 HRE	b2
	HXX	32	55 - 80 HRE	b1
5254	All	32	--	a
5356	0	29	--	a
5454	0	34	62 HB	a
	H38	34	--	a
5456	0	29	--	a
5457	All	46	--	a
5652	All	35	--	a
5657	All	54	--	a
6005	T1	47	--	a
	T5	49	--	a
6013	T4X	37 - 40	41 - 60	b1
	T6X	41 - 44	64 - 79	b1
6053	0	45	--	a
	T4	40	--	a
	T6	42	--	a
6061	0	47 - 56	<25 HRE	b2

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	T4XXX	36 - 45.5	>64 HRE	b1
	T42	36 - 45.5	>60 HRE	b1
	T6XXX	40 - 51	87 - 90 HRE	b1
6063	0	57 - 65	<71 HRH	b2
	T1X	48 - 58	>37 HRE	b1
	T4X	48 - 58	>40 HRE	b1
	T5X	50 - 60	>44 HRE	b1
	T6X	50 - 60	>70 HRE	b1
6066	0	40	90 HB	a
	T6	37	120 HB	a
6070	T6	44	--	a
6101	T6	57	71 HB	a
	T61	59	--	a
	T63	58	--	a
	T64	60	--	a
	T65	58	--	a
6105	T1	46	--	a
	T5	50	--	a
6151	0	54	--	a
	T4	42	--	a
	T6	45	--	a
6201	T81	54	--	a
6253	-	-	--	a
6262	T9	44	--	a
6351	T6	46	95 HB	a
6463	T1	50	42 HB	a
	T5	55	60 HB	a
	T6	53	74 HB	a
			--	a
6951	0	56	--	a
	T6	52	--	a
7049	0	44 - 50	<71 HRE	b2
	T73XXX	40 - 44	>82	b1
	T76XXX	38 - 44	>86	b1
7050	0	44 - 50	<71 HRE	b2
	T735XX	41 - 44	82 - 92	b1
	T74XX	40 - 44	82 - 92	b1
	T76XXX	40 - 44	84 - 94	b1
7055	T7751	35.5 - 38	90.5 - 98	b1
	T77511	35.5 - 38	91.5 - 98	b1
7072	0	59	--	a
7075	0	44 - 47.5	<66 HRE	b2

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	T6XXX	30 - 35	83.5 - 94	b1
	T73XX	38 - 42	79.5 - 89	b1
	T73511	38 - 42	79.5 - 89	b1
	T76XXX	38 - 42	82 - 91	b1
7079	T6XX	30 - 33.5	84 - 94	b1
7150	T651	34 - 39.5	90 - 98	b1
	T6511	32 - 37.5	90 - 98	b1
	T77511	35.5 - 39	90 - 98	b1
7178	T6	31	--	a
8017	H12,H22	59	--	a
	H212	61	--	a
8030	H221	61	--	a