

TABLE 11.1 Mechanical Property Limits—Extruded Wire, Rod, Bar and Profiles ⑥ (continued)

ALLOY AND TEMPER	SPECIFIED DIAMETER OR THICKNESS ① OR MINIMUM DISTANCE ACROSS FLATS in.	AREA sq. in.	TENSILE STRENGTH ksi				ELONGATION ② percent min. in 2 in. or 4D ③
			ULTIMATE		YIELD		
			min.	max.	min.	max.	
6005A							
6005A-T1	Up thru 0.249	All	25.0	..	14.5	..	15
6005A-T5	Up thru 0.249 0.250-0.999	All	38.0	..	31.0	..	7
		All	38.0	..	31.0	..	9
6005A-T61	Up thru 0.249 0.250-1.000	All	38.0	..	35.0	..	8
		All	38.0	..	35.0	..	10
6061							
6061-O	All	All	..	22.0	..	16.0	16
6061-T1	Up thru 0.625	All	26.0	..	14.0	..	16
6061-T4, T4510 ⑤ ⑦ and T4511 ⑤ ⑦	All	All	26.0	..	16.0	..	16
6061-T42 ④ ⑧	All	All	26.0	..	12.0	..	16
6061-T51	Up thru 0.625	All	35.0	..	30.0	..	8
6061-T6, T62 ④ ⑧, T6510 ⑤ and T6511 ⑤	Up thru 0.249 0.250 and over	All	38.0	..	35.0	..	8
		All	38.0	..	35.0	..	10
6063							
6063-O	All	19.0	18
6063-T1	Up thru 0.500 0.501-1.000	All	17.0	..	9.0	..	12
		All	16.0	..	8.0	..	12
6063-T4 and T42 ④ ⑧	Up thru 0.500 0.501-1.000	All	19.0	..	10.0	..	14
		All	18.0	..	9.0	..	14
6063-T5	Up thru 0.500 0.501-1.000	All	22.0	..	16.0	..	8
		All	21.0	..	15.0	..	8
6063-T52 ⑭	Up thru 1.000	All	22.0	30.0	16.0	25.0	8
6063-T6 and T62 ④ ⑧	Up thru 0.124 0.125-1.000	All	30.0	..	25.0	..	8
		All	30.0	..	25.0	..	10
6066							
6066-O	All	All	..	29.0	..	18.0	16
6066-T4, T4510 ⑤ ⑦ and T4511 ⑤ ⑦	All	All	40.0	..	25.0	..	14
6066-T42 ④ ⑧	All	All	40.0	..	24.0	..	14
6066-T6, T6510 ⑤ and T6511 ⑤	All	All	50.0	..	45.0	..	8
6066-T62 ④ ⑧	All	All	50.0	..	42.0	..	8
6070							
6070-T6 and T62 ④ ⑧	Up thru 2.999	Up thru 32	48.0	..	45.0	..	6
6082							
6082-T6, T6511 ⑮	0.200-0.750	All	45.0	..	38.0	..	6
	0.751-6.000	All	45.0	..	38.0	..	8
	6.001-8.000	All	41.0	..	35.0	..	6
6105							
6105-T1	Up thru 0.500	All	25.0	..	15.0	..	16
6105-T5	Up thru 0.500	All	38.0	..	35.0	..	8
6162							
6162-T5, T5510 ⑤ and T5511 ⑤	Up thru 1.000	All	37.0	..	34.0	..	7
6162-T6, T6510 ⑤ and T6511 ⑤	Up thru 0.249 0.250-0.499	All	38.0	..	35.0	..	8
		All	38.0	..	35.0	..	10
6262							
6262-T6, T62 ④ ⑧, T6510 ⑤ and T6511 ⑤	All	All	38.0	..	35.0	..	10
6351							
6351-T1	Up thru 0.499	Up thru 20	26.0	..	13.0	..	15
6351-T4	Up thru 0.749	All	32.0	..	19.0	..	16
6351-T5	Up thru 0.249 0.250-1.000	All	38.0	..	35.0	..	8
		All	38.0	..	35.0	..	10

For all numbered footnotes, see page 11-5.