

## Mechanical Property of Aluminum

Alloy	Tube			Bar			Extrusion		
Alloy\Standard	Tensile Strength (MPa)	Yield Strength (MPa)	Elongation (%)	Tensile Strength (MPa)	Yield Strength (MPa)	Elongation (%)	Tensile Strength (MPa)	Yield Strength (MPa)	Elongation (%)
2011-T3	325	275	8	-	-	-	-	-	-
2011-T4	305	170	18	275	125	16	275	125	12
2011-T6	310	230	4	370	275	10	10	230	6
2014-TO	240	125	10	250	135	12	205	125	12
2014-T4	370	205	10	380	220	16	345	240	12
2014-T6	450	380	7	450	380	8	415	365	7
2017-T0	240	125	10	240	125	10	245	125	16
2017-T4	370	205	10	380	220	12	380	260	8
2017-T6	450	380	7	-	-	-	-	-	-
2024-TO	240	140	10	240	150	16	240	130	10
2024-T4	400	275	10	425	290	9	395	260	12
2024-T6	455	400	5	425	345	5	-	-	-
5049-TO	220	140	14	-	-	-	-	-	-
5049-H111	220	140	14	-	-	-	-	-	-
5049-H112	180	80	13	180	80	13	180	80	13
5056-TO	290	152	35	320	-	20	-	-	-
5056-H38	414	345	15	380	-	-	-	-	-
5086-TO	315	95	14	320	95	14	315	95	12
5086-H111	250	145	12	320	95	14	250	145	10
5086-H112	240	95	12	240	95	10	240	95	10
5086-H32	275	195	8	270	190	4	-	-	-
5086-H34	300	235	6	300	235	-	-	-	-
5086-H36	325	260	4	325	260	-	-	-	-
7001-TO	255	150	14	-	-	-	-	-	-
7001-T6	675	625	9	-	-	-	-	-	-
7050-TO	-	-	-	453	250	16	-	-	-
7050-T6	570	482	18	-	-	-	-	-	-
7075-TO	275	165	10	275	165	8	275	165	9
7075-T4	-	-	-	395	205	12	-	-	-
7075-T6	530	455	8	530	455	7	540	485	6
7178-TO	228	103	15	275	165	10	275	165	10
7178-T6	600	540	5	565	490	4	565	525	5

Sc-containing alloy	Tube			Bar		
Alloy\Standard	Tensile Strength (MPa)	Yield Strength (MPa)	Elongation (%)	Tensile Strength (MPa)	Yield Strength (MPa)	Elongation (%)
YSC688	698	648	9	698	648	9