

ALUMINUM ALLOYS

ALLOY	CHEMICAL COMPOSITION LIMITS (in Per Cent)										MINIMUM MECHANICAL PROPERTIES			
	Cr	Si	Fe	Cu	Mn	Mg	Zn	Ti	Others Each	Others Total	Temper	Yield (PSI)	Tensile (PSI)	Elong. % in 2 inch
(1) (319)	---	5.5-6.5	1.0	3.0-4.0	0.50	0.10	1.0	0.25	---	0.50	-F -T6	--- ---	23,000 31,000	--- 1.5
355	0.25	4.5-5.5	0.60	1.0-1.5	0.50	.40-.60	0.35	0.25	0.05	0.15	-T6	20,000	32,000	2.0
C355	---	4.5-5.5	0.20	1.0-1.5	0.10	.40-.60	0.10	0.20	0.05	0.15	-T6	25,000	36,000	2.5
356	---	6.5-7.5	0.60	0.25	0.35	.20-.45	0.35	0.25	0.05	0.15	-T6	20,000	30,000	3.0
A356	---	6.5-7.5	0.20	0.20	0.10	.25-.45	0.10	0.20	0.05	0.15	-T6	24,000	34,000	3.5
A357	---	6.5-7.5	0.20	0.20	0.10	.40-.70	0.10	0.4-.20	(2) 0.05	0.15	-T61	36,000	45,000	(3) 3.0

- (1) Also contains 0.35 maximum limit for Nickel (Ni)
 (2) Contains Beryllium (BE) .04-.07
 (3) Per AMS 4219

These limits are based on the current issue of the Aluminum Alloy Designations and Chemical Composition Limits for Aluminum Alloys. The Mechanical Properties are based on Federal Specifications QQ-A-601, "Aluminum Alloy Sand Castings"

Tri-Cast Ltd.®
 2128 Killian Road
 Akron, Ohio 44312
 Phone (330)733-8718
 Fax (330)733-8786
sales@tri-cast.com for our sales office