CASTING ALLOY SPECIFICATIONS

	AA NUMBER	FORMER ASTM DESIGNATION	Si SILICON	Fe IRON	Pb LEAD	Cu COPPER	Cd CADMIUM	Mn MANGANESE	Mg MAGNESIUM	Cr CHROMIUM	Ni NICKEL	Sn TIN	Ti TITANIUM	Al ALUMINUM	Zn ZINC	TOTAL OTHERS	CAST-ABLE*	MACHIN-ABLE*	PLAT-ABLE*	CASTING TYPE
Gravity Alloys	343.0	x443z	6.7-7.7	1.2	-	0.50-0.9	-	0.50	0.10	0.10	-	0.50	-	Balance	1.2-2.0	0.35	3	3	1	D
	343.1	x443z	6.7-7.7	0.5-0.9	-	0.50-0.9	-	0.50	0.10	0.10	-	0.50	-	"	1.2-1.9	0.35	3	3	1	D
	355.0	355	4.5-5.5	0.60	-	1.0-1.5	-	0.50	0.40-0.6	0.25	-	-	0.25	"	0.35	0.15	1	3	4	SC-PM
	355.1	355	4.5-5.5	0.50	-	1.0-1.5	-	0.50	0.40-0.6	0.25	-	-	0.25	"	0.35	0.15	1	3	4	SC-PM
	356.0	356	6.5-7.5	0.60	-	0.25	-	0.35	0.20-0.45	-	-	-	0.25	-	0.35	0.15	1	3	4	SC-PM
	A356.0	A356	6.5-7.5	0.20	-	0.20	-	0.10	0.20-0.4	-	-	-	0.20	-	0.10	0.15	1	3	4	SC-PM
	357.0	357	6.5-7.5	0.15	-	0.05	-	0.03	0.45-0.6	-	-	-	0.20	-	0.05	0.15	1	3	4	SC-PM
	A357.0	A357	6.5-7.5	0.20	-	0.20	-	0.10	0.45-0.7	-	-	-	0.10-0.20	-	0.10	0.15	1	3	4	SC-PM
High Pressure Die Casting Alloys	360.0	360	9.0-10.0	2.0	-	0.6	-	0.35	0.4-0.6	-	0.50	0.15	-	-	0.5	0.25	2	3	1	D
	A360.0	A360	9.0-10.0	1.3	-	0.6	-	0.35	0.4-0.6	-	0.50	0.15	-	-	0.5	0.25	2	3	1	D
	380.0	380	7.5-9.5	2.0	-	3.0-4.0	-	0.50	0.10	-	0.50	0.35	-	-	3.0	0.50	2	2	1	D
	A380.0	A380	7.5-9.5	1.3	-	3.0-4.0	-	0.50	0.10	-	0.50	0.35	-	-	3.0	0.50	2	2	1	D
	384.0	384	10.5-12.0	1.3	-	3.0-4.5	-	0.50	0.10	-	0.50	0.35	-	-	3.0	0.50	1	2	2	D
	A384.0	384	10.5-12.0	1.3	-	3.0-4.5	-	0.50	0.10	-	0.50	0.35	-	-	1.0	0.50	1	2	2	D
	390.0	390	16.0-18.0	1.3	-	4.0-5.0	-	0.10	0.45-0.65	-	-	-	0.20	-	0.10	0.20	1	1	3	SC-PM-D
	A390.0	A390	16.0-18.0	0.50	-	4.0-5.0	-	0.10	0.45-0.65	-	-	-	0.20	-	0.10	0.20	1	1	3	SC-PM-D
	413.0	13	11.0-13.0	2.0	-	1.0	-	0.35	0.10	-	0.50	0.15	0.25	-	0.50	0.25	1	5	3	D
	A413.0	A13	11.0-13.0	1.3	-	1.0	-	0.35	0.10	-	0.50	0.15	0.12-0.20	-	0.50	0.25	1	5	3	D
	C443.0	43	4.5-6.0	0.80	-	0.6	-	0.50	0.05	0.25	-	-	-	-	0.50	0.35	3	5	2	SC-PM-D
	A443.0	43	4.5-6.0	0.80	-	0.30	-	0.50	0.05	0.25	-	-	-	-	0.50	0.35	3	5	2	SC-PM-D
	518	218	0.35	1.8	-	0.25	-	7.5-8.5	0.35	-	0.15	0.15	-	-	0.15	0.25	5	3	1	D
	Zinc #2	Zamak #2	-	.05	0.005	2.6-3.0	0.004	-	0.02-0.06	-	-	0.002	-	3.7-4.3	Balance	-	1	1	1	D
	Zinc #3	Zamak #3	-	0.0-0.10	0.005	0.0-0.25	0.004	-	0.02-0.05	-	-	0.003	-	3.5-4.3	"	0	1	1	1	D
	Zinc #5	Zamak #5	-	0.0-0.10	0.005	0.75-1.25	0.004	-	0.03-0.08	-	-	0.003	-	3.5-4.3	"	0.05	1	1	1	D
	ZA-12	-	-	0.0-0.075	0.005	0.5-1.0	0.004	-	0.01-0.02	-	-	0.003	-	10.5-11.5	"	-	1	2	2	SC-PM-D
	ZA-27	-	-	0.0-0.10	0.004	2.0-2.5	0.003	-	0.01-0.02	-	-	0.002	-	25.0-28.0	"	-	2-3	3	3	SC-PM-D

Only composition limits which are identical to those listed herein or are registered with the Aluminum Association are designated as "AA" Alloys.

Casting Type:
D = Die Cast Alloys
SC = Sand Cast Alloys
PM = Permanent Mold Alloys

Ratings:
1 = Excellent
2 = Above Average
3 = Average
4 = Below Average
5 = Poor

***Definitions:**

Castable: *Ability of molten alloy to flow readily in die and to fill thin sections.*

Machinable: *Composite rating based on ease of cutting, chip characteristics, quality of finish, and tool life.*

Platable: *Ability of a die cast part to take and hold an electroplate applied by present standard methods. (Exclusive of anodizing appearance).*

See reverse side for Alloy "Physical" Specifications chart.

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