

ALLOY "PHYSICAL" SPECIFICATIONS

AA NUMBER	ULTIMATE TENSILE KSI	YIELD STRENGTH KSI	ELONGATION % IN 2"	SHEAR STRENGTH KSI	BRINELL HARDNESS	DENSITY lb/cu in	COMPRESSION STRENGTH KSI	THERMAL CONDUCTIVITY 77° F BTU/ft H° F	ELECTRICAL CONDUCTIVITY % IACS	MODULUS OF RUPTURE	MELTING POINT ° F	FATIGUE STRENGTH KSI	COEFFICIENT OF THERMAL EXPANSION μ in/in ° F
Gravity Alloys													
343.0	35	20	6.0	-	-	-	-	-	-	-	1250-1500	-	-
343.1	35	20	6.0	-	-	-	-	-	-	-	1250-1500	-	-
355.0	30	25	1.5-2.0	24	65-85	0.098	25	87-96	36-43	-	1250-1500	14	12.4
355.1	30	25	1.5-2.0	24	65-85	0.098	25	87-96	36-43	-	1250-1500	14	12.4
356.0	33	24	3.5	25	60-80	0.097	21-31	87-96	39-43	-	1135-1500	8	11.9
A356.0	33	24	3.5	25	60-80	0.097	21-31	87-96	39-43	-	1250-1500	13	11.9
357.0	45	32	3.0	-	100	0.097	30-40	88	-	-	1250-1500	16	12
A357.0	45	32	3.0	-	100	0.097	30-40	88	-	-	1250-1500	16	12
360.0	46	24	3.5	28	80	0.095	-	65.3	28	-	1200-1400	20	11.6
A360.0	46	24	3.5	26	80	0.095	-	65.3	30	-	1200-1400	18	11.6
380.0	46	23	3.5	28	80	0.098	-	55.6	27	-	1200-1400	20	11.7
A380.0	47	23	3.5	27	80	0.098	-	55.6	27	-	1200-1400	20	11.7
384.0	48	24	2.5	29	85	0.102	-	53	23	-	1200-1400	20	11.4
A384.0	48	24	2.5	29	85	0.100	-	56	23	-	1200-1400	20	11.4
390.0	40	35	1.0	-	120	0.099	-	77.4	27	-	1200-1400	20	10
A390.0	40	35	1.0	-	120	0.099	-	77.4	27	-	1200-1400	20	10
413.0	43	21	2.5	25	-	0.096	-	70.1	31	-	1200-1400	19	11.3
A413.0	42	19	3.5	25	-	0.096	-	70.1	31	-	1200-1400	19	11.3
443.0	19	8	8.0	14	40	0.097	-	82.2	37	-	1250-1500	8	12.2
A443.0	19	8	8.0	14	40	0.097	-	82.2	37	-	1250-1500	8	12.2
518	45	28	5.0	29	80	0.093	-	55.6	24	-	995-1150	20	13.4
Zinc #2	52	-	7	46	100	0.24	-	60.5	25	-	734	-	15.4
Zinc #3	41	-	10.0	31	82	0.24	60	65.3	27	95	728	6.9	15.2
Zinc #5	47.6	-	7.0	38	91	0.24	87	63	26	105	727	8.1	15.2
ZA-12	56-59	43-46	3-8	32	89-96	0.218	85	50-53	28.3	-	710-810	8	13.4
ZA-27	58-64	52-56	3-6	32-43	110-120	0.181	-	72.5	29.7	-	708-919	25	14.4
High Pressure Die Casting Alloys													

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