

Make the wise choice...



ZINC ALLOYS

Die Cast Alloy # ZA 8, ZA 12, ZA 27 ASTM B699

	COMPOSITION					
	ALLOY ZA 8		ALLOY ZA 12		ALLOY ZA 27	
	INGOT	CASTING	INGOT	CASTING	INGOT	CASTING
Aluminum	8.2 – 8.8	8.0 – 8.8	10.8 – 11.5	10.5 – 11.5	25.5 – 28.0	25.0 – 28.0
Copper	.80 – 1.30	.80 – 1.30	.5 – 1.20	.5 – 1.20	2.0 – 2.50	2.0 – 2.50
Magnesium	.020 - .030	.015 – 0.30	.020 - .030	.015 - .030	.012 - .020	.010 - .020
Iron (Max.)	0.065	0.075	0.065	0.075	0.072	0.075
Tin (Max.)	0.005	0.006	0.002	0.003	0.002	0.003
Cadmium (Max.)	0.005	0.006	0.005	0.006	0.005	0.006
Lead (Max.)	0.005	0.006	0.005	0.006	0.005	0.006
Nickel	-	-	-	-	-	-
Zinc (99.99% Purity)	Bal.	Bal.	Bal.	Bal.	Bal.	Bal.

PROPERTIES (As Die Cast)

	ZA – 8	ZA – 12	ZA – 27
Density lb./cu. In	0.227	0.218	0.181
Thermal Conductivity BTU/ft – hr ° F	66.3	67.1	72.5
Melting Range - ° F	707 - 759	710 – 810	708 – 903
Electrical Conductivity % IACS	27.7	28.3	29.7
Coef. Thermal Expansion - ° C (68 ° - 212 ° F) 1/° F x 10⁻⁶	12.9	13.4	14.4
Tensile Strength P.S.I. x 10³	54	59	62
Compressive Yield Strength – 0.1% Offset PSI x 10³	37	39	52
Elongation % in 2”	8	5	2.5
Impact Strength Ft – lb	31 ²	21 ²	9 ²
Brinell Hardness	95 – 110	95 – 115	105 – 125
Shearing Strength P.S.I. x 10³	40	43	47
Specific Heat BTU/lb/° F	0.104	0.107	0.125

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