

Make the wise choice...



ZINC ALLOYS

Die Cast Alloy # 3, #5, & #7 ASTM B240

	COMPOSITION					
	ALLOY No. 3		ALLOY No. 5		ALLOY No. 7	
	INGOT	CASTING	INGOT	CASTING	INGOT	CASTING
Aluminum	3.90-4.30	3.50-4.30	3.90-4.30	3.50-4.30	3.90-4.30	3.50-4.30
Copper	0.10 (Max.)	0.25 (Max.)	0.75-1.25	0.75-1.25	0.10 (Max.)	0.25 (Max.)
Magnesium	.025-.05	0.02-0.05	0.03-0.06	0.03-0.08	0.010-0.020	0.010-0.020
Iron (Max.)	0.075	0.1	0.075	0.1	0.075	0.075
Tin (Max.)	0.002	0.003	0.002	0.003	0.001	0.001
Cadmium (Max.)	0.003	0.004	0.003	0.004	0.002	0.002
Lead (Max.)	0.004	0.005	0.004	0.005	0.002	0.0030
Nickel	-	-	-	-	.005-0.020	0.005-0.020
Zinc (99.99% Purity)	Bal.	Bal.	Bal.	Bal.	Bal.	Bal.

PROPERTIES

(As Die Cast)

	ALLOY #3	ALLOY #5	ALLOY #7
Specific Gravity g/cm ³	6.6	6.6	6.6
Density lb./cu. In	0.24	0.24	0.24
Thermal Conductivity BTU/FT – hr ° F	65.3	62.9	65.3
Melting Range - ° F	719-728	717-727	718-728
Electrical Conductivity % IACS	27	26	27
Coef. Thermal Expansion - ° C (68 ° - 212 ° F) 1/° F x 10 ⁻⁶	15.2	15.2	15.2
Young's Modulus PSI x 10 ⁶	>or = 12.4	>or = 12.4	>or = 12.4
Tensile Strength P.S.I. x 10 ³	41	48	41
Compressive Yield Strength – 0.1% Offset PSI x 10 ³	60 ⁶	87 ⁶	60 ⁶
Elongation % in 2"	10	7	13
Impact Strength Ft – lb	43 ²	48 ²	43 ²
Brinell Hardness	82	91	80
Shearing Strength P.S.I. x 10 ³	31	38	31
Specific Heat BTU/lb/ ° F	0.10	0.10	0.10

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