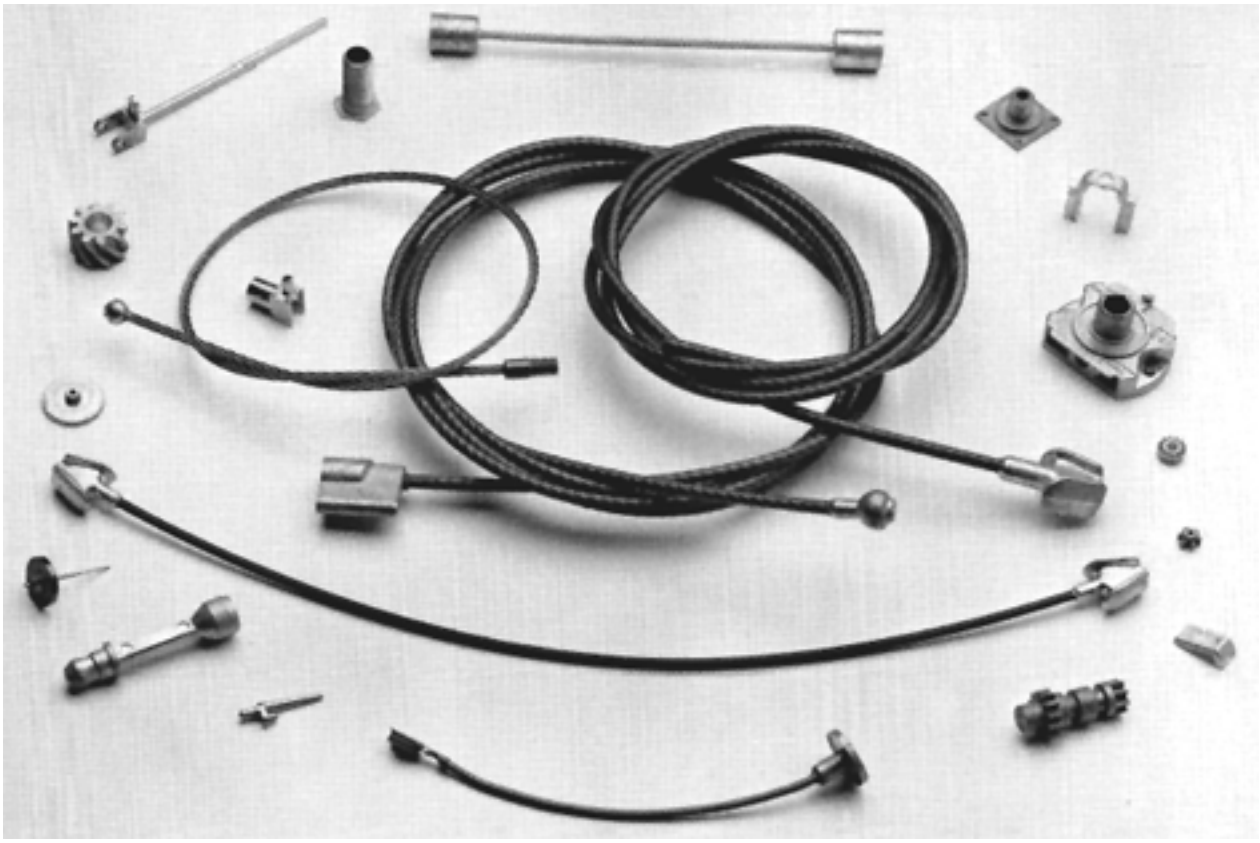
CAST YOUR LOT WITH LOOS CUSTOM ZINC DIE CASTINGS



ADVANTAGES OF ZINC:

END FITTINGS ON CABLE ASSEMBLIES

- Holds break strength on cable
- Less expensive than swaging
- Intricate & special threaded parts

SMALL PART DIE CASTINGS

- Less expensive than machined parts
- Intricate shapes and undercuts
- Elimination of secondary operations

TYPICAL APPLICATIONS

CABLE ASSEMBLIES

Balls, Threaded Studs, Peanuts, Eyes, Forks, Stops, Single and Double Spades, Custom Fittings

SMALL PART DIE CASTINGS

Gears, Bearing Brackets, Levers, Clips, and Countless Special Purpose Parts

---

MATERIALS

ZAMAC 3: Most common zinc die casting alloy. Strength, ductility, and impact strength.

ZAMAC 5: Slightly greater hardness, strength, and creep resistance.

FINISHES: Chrome Plate, Nickel Plate, Chromate (Colors), and Zinc Oxide

SIZE: Max. 1 oz. (approx. .5 cubic ")

Loos & Co. can supply flash-free, ready to use custom parts per your specifications with the finish of your choice.

COMPOSITION AND PROPERTIES OF ZINC ALLOY INGOTS

DESIGNATION	ASTM Designation B240-64	AG40A	AC41 A
	SAE	903	925
	General Designation	ZAMAC 3	ZAMAC 5
COMPOSITION PERCENTAGE BY WEIGHT	Cu Copper	0.10 Max.	0.75-1.25
	Al Aluminum	3.9-4.3	3.9-4.3
	Mg Magnesium	0.025-0.05	0.03-0.06
	Fe Iron	0.075 Max.	0.075
	Pb Lead	0.004 Max.	0.004
	Cd Cadmium	0.003 Max.	0.003
	Sn Tin	0.002 Max.	0.002
	Ni Nickel		
	Zn Zinc (99.99+% Purity)	Remainder	Remainder
MECHANICAL PROPERTIES	Charpy Impact Strength, ft. lb. 1/4 x 1/4-in. bar, as cast	43	48
	Charpy Impact Strength, after 10 yrs. indoor aging	41	40
	Tensile Strength psi, as cast	41,000	47,600
	Tensile Strength psi, after 10 yrs. indoor aging	35,000	39,300
	Elongation % in 2" as cast	10	7
	Elongation % in 2" after 10 yrs. indoor aging	16	13
	Expansion inches per inch after 10 yrs. indoor aging	0.0001	0.0001
OTHER PROPERTIES AND CONSTANTS (AS CAST)	Brinell Hardness	82	91
	Compression Strength-lb/sq.in.	60,000	87,000
	Electrical Conductivity-Mhos./cm. cube at 20°C	157,000	153,000
	Melting Point-°C	386.6	386.1
	Melting Point-°F	727.9	727.0
	Modulus of Rupture-lb/sq.in.	95,000	105,000
	Shearing Strength-lb/sq.in.	31,000	38,000
	Solidification Point °C	380.6	380.4
	Solidification Point-°F	717.1	716.7
	Solidification Shrinkage in./ft.	0.14	0.14
	Specific Gravity	6.6	6.7
	Specific Heat-cal/gm/°C	0.10	0.10
	Thermal Conductivity-cal/sec/ sq. cm /cm/°C at 18°C	0.27	0.26
	Thermal Expansion per °C	0.0000274	0.0000274
	Thermal Expansion per °F	0.0000152	0.0000152
	Transverse Deflection-in.	0.27	0.16
	Weight-lb/cubic inch	0.24	0.24

LOOS & CO. INC
WIRE ROPE DIVISION
POMFRET, CT 06258 • 860-928-7981
1-800-533-LOOS (5667) FAX: 860-928-6167
Web:http://www.loosco.com/• E-mail:mailto:mailto:sales@loosco.com