

ZINC ALLOYS



The NEY KOR-ZEE® brand of Zinc alloys are used throughout the world.

Zinc Based Alloys have been in demand for decades while quietly producing thousands of safe and efficient products for hundreds of applications throughout countless industries. There are probably a dozen of more products that you are using right now that would never exist without Zinc as a key ingredient for production.

From the belt you are wearing, to the emblems on your car, to the faucet in your kitchen or the zipper on your clothes to the handles and locks you touch each day, none of them would probably exist without Zinc. Alloys of Zinc are an indispensable part of your everyday life. Even that phone on your desk or the penny you left on the sidewalk has been manufactured with Zinc. The low cost and wide-ranging applications as a safe raw material, is only part of Zinc's mass appeal.

NEY has been producing Zinc alloys for almost 100 years by blending it together with Aluminum, Magnesium, Copper and other proprietary ingredients with grain refiners. Many of these alloys are in use worldwide as custom designed materials for use by the Centrifugal Spin Casting Industry or the Die Cast Industry.

Alloys, such as our environmentally friendly S1 and J1 series, are perfectly designed to help you produce high strength, low cost, dimensionally accurate castings. They are used to create basic items from Automotive or Tooling parts to beautifully finished Fashion Jewelry, Belt Buckles or Promotional products. They can be easily cast at moderate temperatures (< 810° F) in Silicone rubber or gravity cast molds.

NEY produces common Zinc alloys as well. These are known in the industry as Zamak or Zamak (Mazak-UK) alloys, Kirksite, ZA or ASTM B86 Alloys. We can manufacture to a specific ASTM or ZA formula (e.g. ZA3, ZA5, ZA7, ZA12, ZA27) or for Marine applications (MIL-A-18001 L) used to produce Zinc Anodes. We will also customize many other non-ferrous alloys to fit your production demands.



Our Zinc Alloys are designed to meet your engineering needs. We also supply Zinc in flat sheet form. These Zinc Sheets are used to create beautiful counter-tops or bar tops. They can also be used for roofing material and Architectural items.

NEY Zinc Alloys offer hardness and high strength, allowing for many solutions to your manufacturing and cost issues. They can be an alternative to stamped, machined or pressed components. Our alloys have excellent thin wall capability, high-quality finishing characteristics, high thermal conductivity. Many are used for corrosion control and corrosion resistance. They have the ability to be cold formed, have good electrical conductivity and are environmentally friendly and recyclable!

Our most successful, proprietary alloy is our NEY380® Fluxless Aluminum Solder. It is used for the joining of Aluminum without the use of a flux, usually required to remove oxides before soldering. From Aluminum joints to heat exchangers, NEY380® has been the industry leader since the 1960's and a solution for many diversified applications. Contact us or visit our website for detailed information.

Forms: Slab, Pig, Ingot, Bar, Ball, Cut Pieces, Rod, Wire, Shot, Grain or Sheet
Custom shapes and castings are available.



NEY Zinc Alloys can be spin cast in Silicone Rubber Molds. Our alloys produce incredibly detailed Fashion Jewelry items, castings for Belt Buckles and other Ornamental items.

FEATURED PRODUCTS	
Spin Cast Zinc Alloy 892N51	90 to 94 Percent Zinc in a proprietary formula. This is our Original, Lead Free, Zinc Based Alloy that works well in Spin Cast Vulcanized Silicone Molds for designs with thick cross sections or minimal detail. Contains Proprietary Grain Refiners for improved casting properties.
Spin Cast Zinc Alloy 892NJ1	91 to 95 Percent Zinc in a proprietary formula. This is our most popular Lead Free Zinc Alloy that works well in Spin Cast Vulcanized Silicone Molds for designs with thin cross sections or maximum detail. Contains Proprietary Grain Refiners for improved flow into the mold.
NEY Slush Cast (Gravity Pour) Zinc Alloy 895N955	94 to 96 Percent Zinc. This is a standard Slush Cast, Gravity Pour Zinc Based Alloy that is known in the industry as 95/5. It can be used for thin wall castings that need fine detail. We add Proprietary Grain Refiners for improved casting properties.
ZAMAC (ZAMAK) # 2, 3, 4, 5 & 7	We can Supply all of the ZAMAC (ZAMAK) Alloys with the most common being numbers 2,3,4,5,6 & 7. These meet ASTM, EN, JIS, GB and AS Specifications (e.g. ASTM B86 Castings) The name ZAMAC stand for Zinc Alloyed with Magnesium (Mg) Aluminum (Al) and Copper (Cu) or Kupfer (K) and was produced in 1929 by NJ Zinc.
NEY 380 Fluxless Aluminum Solder	A Proprietary Solder composed of Zn, Al, Cu, Mg that will solder Aluminum to Aluminum without a Flux.

