



# Exceptional Sound For ENHANCED AUDITORY EXPERIENCES

Arnold Magnetic Technologies

AUDIO INDUSTRY

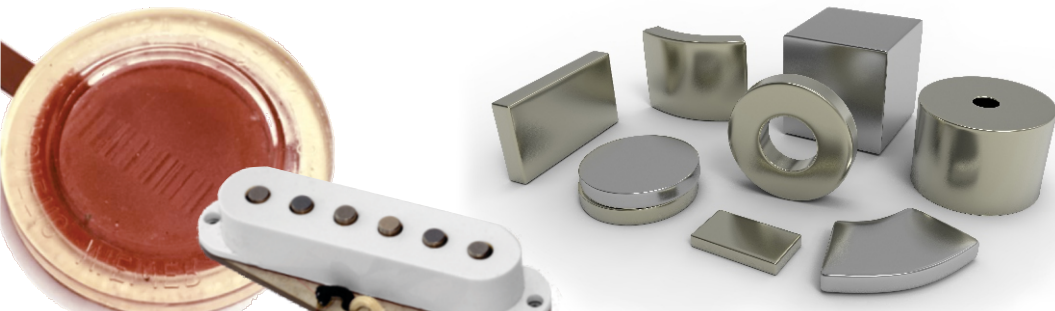
## Supporting Quality Commercial & Consumer Electronics

Arnold Magnetic Technologies is a reliable and trusted partner for companies in the audio industry, with a proven track record of providing high-quality components that are critical for delivering the best audio experience to consumers.

Today's consumers demand exceptional sound quality from their speakers. One of the main components involved in the delivery of crisp, clear sound is the speaker dome. It is important that the dome be made of a clean ultra-thin metallic foil to allow efficient transfer of the electrical signal into sound waves over a wide range of frequencies. To prevent failures in the speaker's operation, the foils must have a defect-free surface finish.

Precision Thin Metals, a division of Arnold Magnetic Technologies, is an industry leader in the manufacturing of ultra-thin gauge strips and foils. We offer Stainless Steel, Titanium, Aluminum, Beryllium, and other alloy foil options for your projects.

Guitarists and audio engineers have relied on Arnold's Alnico 5 magnets to build and repair pick-up mics since 1935. Alnico 5 delivers energy to a magnetic circuit more economically than any other Alnico grade on a consistent basis. The material is also inherently corrosion resistant so coating/ plating is not often necessary.



## Magnetic Materials

- Alnico Magnets
- Laminated Magnets
- Neodymium Iron Boron Magnets

## Thin Gauge Materials

- Arnon™: Non-Grain Oriented Silicon Steel
- Arnavar: Corrosion resistant material
- Titanium
- Aluminum
- Beryllium

## Applications

- High-end Speaker Dome Foils
- Alnico Guitar Magnets
- Microphone Diaphragms
- Speaker Cables/ Ribbon Wire
- Magnetic Viewer for Analyzing Tapes
- Bobbin Wound Coils for Ham Radios
- Magnets for Headphones & Guitar Pickups

# Applications

## High-end Speaker Domes & Mic Diaphragms

Arnold provides high quality foils for speaker domes where a clean and defect-free surface finish is needed for superior operation of the speaker.

Our heat treatment process allows us to manufacture foils with repeatable mechanical properties which are required to provide consistent high-quality sound.

## Magnets for Headphones

For superior headphone quality, many manufacturers choose neodymium iron boron magnets. Neodymium iron boron magnets offer the highest energy product of any material today and are available in a wide range of shapes, sizes and grades.

## Bobbin Wound Coils for Ham Radios

Our custom engineered coils use high quality, bondable magnet wire to reach the electrical specs you need and keep your design as small as possible.

Coils can be custom sized and coated with durable, temperature resistant varnish/ thermoplastics to protect your assemblies from moisture, corrosion, vibration, and other harsh conditions.



Scan here for more information

## Magnets for Guitar Pickups

Arnold prides ourselves on offering Alnico with low temperature coefficients, excellent stability, and economic energy delivery. Contact us to discuss the grades and sizes available for our guitar magnets.

## Magnetic Viewer for Analyzing Tapes

Audiophiles and restoration specialists rely on our patented Magnetic Viewer to analyze and restore damaged DAT, ADAT, and reel-to-reel tapes, without the mess of liquid spray.

This viewer provides a fast, clean way to view magnetized patterns and makes visible the recorded signal on magnetic tapes, discs, or cards.

