



Electrification of Systems MISSION CRITICAL APPLICATIONS

Arnold Magnetic Technologies

AEROSPACE & DEFENSE

Trusted Supplier to the Aerospace and Defense Markets

As a non-traditional vendor, Arnold provides materials and products used in commercial and defense aviation, satellites, and a wide range of critical applications where quality and performance are of utmost importance.

Extreme temperatures and corrosive environments call for RECOMA® Samarium Cobalt; an ideal choice for permanent magnetic applications which are expected to perform flawlessly for extended periods and with little or no maintenance. All locations in our Samarium Cobalt RECOMA® product's supply chain are registered with ITAR and can adhere to DFAR clauses.

Arnold is able to supply Neodymium Iron Boron magnets (NdFeB) that are fully compliant with the U.S. Defense Federal Acquisition Regulation Supplement (DFARS 225.7018 Restriction on acquisition of certain magnets and tungsten, 'The John S. McCain National Defense Authorization Act – NDAA 2019').

Aerospace and Defense customers also choose our thin and ultra-thin titanium to create lighter-weight structural sections and Arnon™, our Non-Grain Oriented Silicon Steel (NGOES), to reduce the weight and increase the efficiency of permanent magnet DC (PMDC) motors.

With manufacturing and engineering expertise in North America, Europe and Asia, Arnold has the resources available to meet your requirements. Arnold magnetic materials and assemblies give you the power and reliable performance you need.

Magnetic Materials

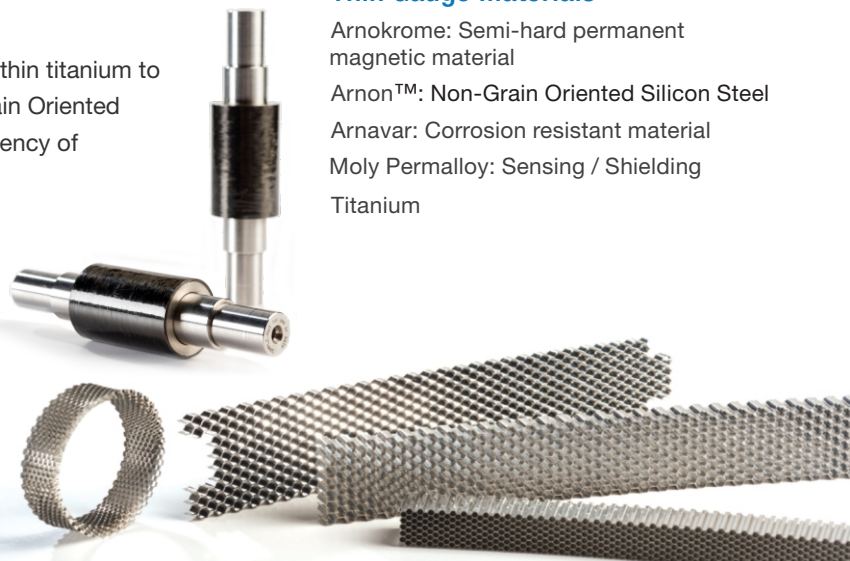
- RECOMA® Samarium Cobalt, Grades 18-35E
- Neodymium-Iron-Boron Magnets
- Alnico Magnets
- Laminated Magnets

Assemblies

- Simple & Complex Magnetic Assemblies
- High Speed Rotors & Stators
- AC induction, Switched Reluctance, and Brushless DC Motors

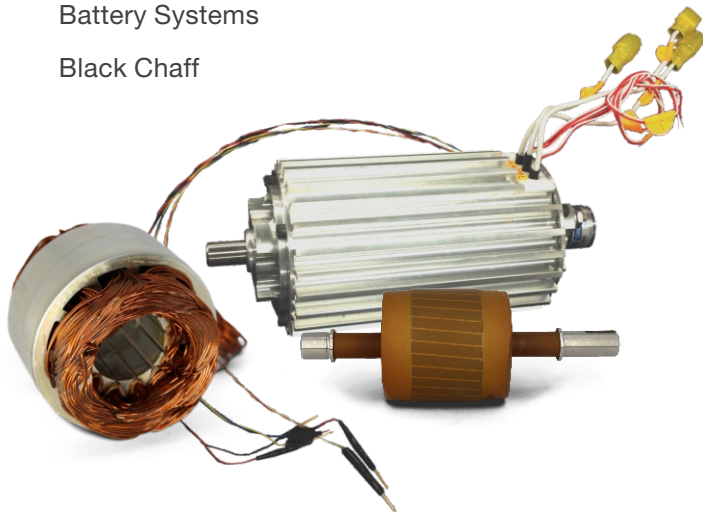
Thin Gauge Materials

- Arnokrome: Semi-hard permanent magnetic material
- Arnon™: Non-Grain Oriented Silicon Steel
- Arnavar: Corrosion resistant material
- Moly Permalloy: Sensing / Shielding
- Titanium



Applications

- Rotor Assemblies
- Drive couplings, Pumps / Torque transfer
- Position Sensing
- Electric Motors
- Ram Turbine Engine (RAT)
- Auxiliary Power Units
- Flap Actuators
- Coolant Pump Impellers
- Magnetic Bearings
- Electromagnetic Brakes
- Wave Guides for Microwave Transmission (TWT)
- EMI / RFI Shielding
- Aero Structures
- Fuel Systems
- Lighting Systems
- Lens Shutters & Shielding
- Battery Systems
- Black Chaff



Learn more at arnoldmagnetics.com
or call us and speak with our engineers
about your needs.



Our R&D Team partners with customers to tackle complex design challenges. Our engineers and materials scientists focus on total system performance and often make design optimization recommendations to achieve higher performance and improve manufacturability. Our Team is dedicated to engineering solutions together with you.

As demonstrated through our quality processes and certifications, Arnold customers are accustomed to receiving the highest quality materials, consistently and quickly.

Certs & Lists

ISO 9001:2015
AS 9100 Rev D



Arnold is a US-based corporation which is ITAR registered with the U.S. Dept. of State. We take pride in complying with applicable government requirements throughout our organization.

