

PRECISION THIN METALS

CAPABILITIES

Precision Rolled Thin / Ultra-Thin Alloy Strip and Foil

PTM's materials improve the power density of motors, transformers, batteries and many other applications in Automotive, Aerospace, Energy Exploration, Industrial and Medical markets. For example, our Silicon Steels improve the power density of motors and transformers, our ultra-thin Ni, Al and Cu are helping in the development of tomorrow's batteries, while our thin Titanium strip is both strengthening and lightening components used in the aerospace industry.

Dimension Capabilities

Arnold's Precision Thin Metals team stands behind our ability to achieve optimized performance of our Silicon Steels and other precision thin materials utilized in your design. Our in-house laboratory and testing facilities enable us to fine-tune grain structure, for example, so that our customers receive top performance materials at a favorable price point.

		Width				
Inches	(mm)	0.035 in 0.9 (mm)	4.0 in 101.6 (mm)	4.5 in 114.3 (mm)	16.5 in 419.1 (mm)	
Thickness	0.060	1.524	X	X	X	X
	0.0005	0.013	X	X	X	X
	0.0004	0.010	X	X		
	0.0001	0.003	X	X		

How thin is thin?

Thinness is a relative term, and we're often asked how we categorize the end product's thinness or gauge. We define thin and ultra-thin this way:

Thin 0.060" to 0.0005"
1.524mm to 0.013mm

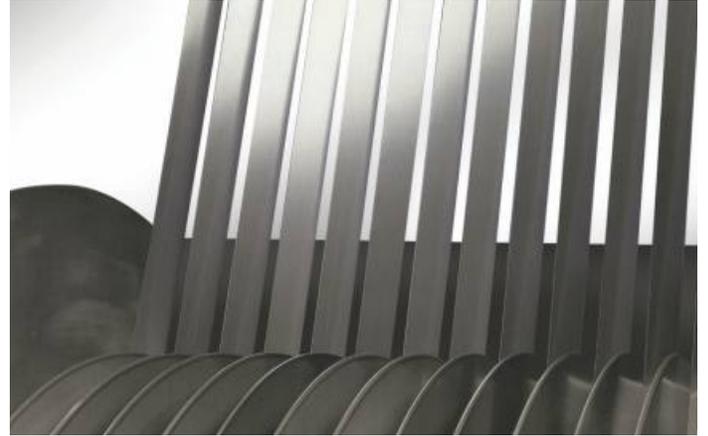
Ultra-Thin 0.00049" to 0.000069"
0.01245mm to 0.00175mm

Materials

- Titanium Alloys
- Stainless Steel
- Nickel-Base and High-Temperature Alloys
- Ferrous-Based Alloys
- Aluminum Alloys
- Nickel Chrome
- Electrical Silicon Steels
 - Grain Oriented | Non-Oriented
- Nickel Iron Alloys
- Magnetic and Cobalt Alloys
- Controlled Expansion Alloys
- Copper-Base Alloys
- Spring Alloys

PRECISION THIN METALS

Precision Thin Metals (PTM) business of Arnold Magnetic Technologies manufactures thin and ultra-thin gauge metal strip and foil products. In our advanced precision rolling facility, our team has the expertise and capability to roll, anneal, and slit materials at some of the thinnest and widest gauges in the industry. Our materials are commonly found in aerospace and military applications, high efficiency motors, advanced transformer designs, electron beam processing equipment, HVAC systems for smart buildings, security tags, sensing applications, batteries, and high temperature strip and metal tape wound core products.



Markets Served



Motors & Transformers

PTM's thin and ultra-thin GOES and NGOES Silicon Steels help customers achieve efficiency gains of their motor and transformer designs.



Aerospace & Defense

Customers choose our products to create lighter-weight structural sections to reduce the weight of permanent magnet DC motors.



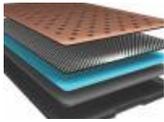
Industrial

Proven, reliable results make this one of our largest markets. Our products can be found in motors, sensors, gauges, and more.



Oil & Gas / Energy

PTM materials are used in a host of oil and gas exploration, green power generation, and other power grid applications.



Battery

PTM products help improve battery design and energy storage performance for the efficient electrification of system.



Automotive

We aid auto manufacturers' work towards more efficient electrification of passenger cars and light duty trucks.

Certifications

Arnold Magnetic Technologies and the PTM business provide materials that meet DFARS and ITAR requirements.

ISO 9001:2015
AS9100 Rev D



Manufacturing Capabilities

Motor Lamination Materials
Milling
Slitting

Annealing
Coating
Magnetizing

Applications

Motor Laminations
Reverse Thrusters
Batteries
Gaskets
Magnetic Tag Stock
Honeycomb Structures
Irradiation Windows
Transformers
Brazing Alloys
Shielding

Magnetic Bearings
Barrier Membranes
Implant Devices
Heat Shielding
Magnetic Sensors
Hysteresis Drives
Solar Panels
Radiation Detectors
Satellites
Sacrificial Wear Surfaces

Contact PTM directly

North America Sales

1-815-568-2476
infoNA@arnoldmagnetics.com

International Sales

(+41) (0) 56 464 21 00
infoEU@arnoldmagnetics.com

Visit us at www.arnoldmagnetics.com/PTM

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