

Rotatable Magnetron Sputtering Targets



High Purity Molybdenum - 3N7+

KEY FEATURES

Saint-Gobain sputtering targets are produced using a proprietary and patented process, which brings a unique set of features to the market. Our Molybdenum Targets combine high-purity, continuous surface (no joints) up to 3.9 meters long (12.75 feet) and even in a customized Dog-Bone shape (option) enabling the best material usage, and a very unique fine microstructure. The bonding on the backing tubes (Stainless steel or Titanium) is Indium-free and allows safe operation down to the last mm of sputtering.

Purity	> 99.97%
Target Thickness	up to 18 mm
Thickness Profile	straight or dog-bone (without joints)
Maximum Length	up to 3.9 meters (12.75 feet)
Impurities	Fe < 30 ppm Ni < 10 ppm
Electrical resistivity (measured on target material)	7.5 $\mu\Omega$.cm
Electrical resistivity (measured on thin films)	19 $\mu\Omega$.cm for 90 nm (thin film example 1) 14 $\mu\Omega$.cm for 120 nm (thin film example 2) 12 $\mu\Omega$.cm for 200 nm (thin film example 3)
Surface Finish	$R_{Max} < 10 \mu m$ $R_a < 0.8 \mu m$
Recycling possibilities	yes with our ECO-RECYCLING process

APPLICATIONS

Our High Purity Molybdenum Targets have been qualified by various OEMs and Producers and meet the requirements of the most demanding applications such as:

- PV-Thin-film for electrode layers, bus-bar layers
- Touch screen and Flat Panel Display (TFT interconnects, metal-gates, arrays,..)
- Any other application requiring very low resistivity Molybdenum thin-film

BENEFITS

- Safe and Stable operation up to 50 kW/m
- Lower cost of ownership resulting from the excellent material yield and the option ECO-RECYCLING
- Best material usage thanks to “dog-bone” shape option and possibility to sputter down to the last mm
- Unique on the market : Discover the strong impact of our ECO-RECYCLING Process to save costs and improve targets life cycle. Contact us to learn more

SPECIAL REQUESTS : MOLYBDENUM-BASED ALLOYS

We have also developed Premium Sputtering targets in various Molybdenum-based alloys such as MoNb, MoTi, MoW, MoSi. Please contact us.

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