

Rotatable Magnetron Sputtering Targets



High Purity Niobium Metal

KEY FEATURES

Saint-Gobain sputtering targets are produced using a proprietary process, which brings a unique set of features to the market. Our Nb 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 enabling the best material usage. The strong bond on the backing tubes (Stainless steel or Titanium) is Indium-free and allows safe operation down to the last mm of sputtering.

Purity	>99.95%
Target Thickness	Up to 15 mm
Thickness profile	Straight or Dog-bone (without joints)
Target maximum length	Up to 3.9 meters (12.75 feet)
Target density	$7.5 \pm 0.2 \text{ g/cm}^3$
Oxygen Content	< 400 ppm
Surface finish (Ra)	Polished (Ra < 3.2) or Raw (to custom. choice)

APPLICATIONS

Our high purity Nb Targets are proven and qualified by various end-users for the most demanding applications such as:

- Flat Glass large areas (enabling Nb_2O_5 thin films for anti-reflective or high index layers)
- Electrochromic glazing stacks
- Display (touch screens)

BENEFITS

- Very high purity
- Safe and Stable operation with reduced risk of micro-arcs
- Lower cost of ownership thanks to the customized “dog-bone” shape option

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