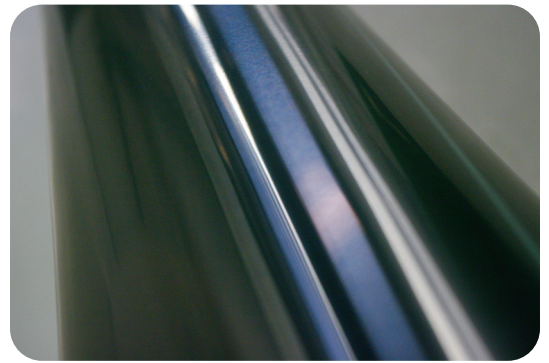


Rotatable Magnetron Sputtering Targets



High Purity Niobium Oxide Nb₂O_x

KEY FEATURES

Saint-Gobain sputtering targets are produced using a proprietary process, which brings a unique set of features to the market. Our Nb₂O_x Targets are designed for an optimum reliability, enabling high power sputtering, and their dense microstructure yield in a clean sputtering with less dusting and particle release. Our manufacturing capabilities enable us to fully customize the thickness profile (“dog-bone” shape) with a continuous surface and a strong bond, and we can offer sizes up to 3.9 meters long (12.75 feet).

Target Thickness	Up to 9 mm
Thickness profile	Straight or Dog-bone (without joints)
Target maximum length	Up to 3.9 meters (12.75 feet)
Target density	5.10 ± 0.1 g/cm ³
Purity	> 99.8% or >99.95% on-demand
Oxygen stoichiometry	Nb ₂ O _x with x ≈ 4.80
Electrical resistivity	0.02 Ω.cm
Surface finish (Ra)	< 0.2 μm
Surface finish (R Max)	< 7 μm

APPLICATIONS

Our high purity Nb₂O_x Targets are proven and qualified by various end-users for the most demanding applications such as:

- Touchscreen-based Display applications (index-matching layer in capacitive touchscreen)
- Web Coating on Polymer films (high optical index layer)
- Architectural Glass (high optical index layer)
- Automotive Glass (high optical index layer)
- Solar Glass (in anti-reflective stacks)

BENEFITS

- Safe and Stable operation up to 40 kW/m in AC and 35 kW/m in pulsed DC
- Lower cost of ownership thanks to the customized “dog-bone” shape option

The information contained in this document is believed to be accurate and reliable but is presented without guarantee or warranty on the part of Saint-Gobain Ceramics and Plastics Inc. Nothing herein should be interpreted as an authorization or inducement to practice any patented invention without a license.

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