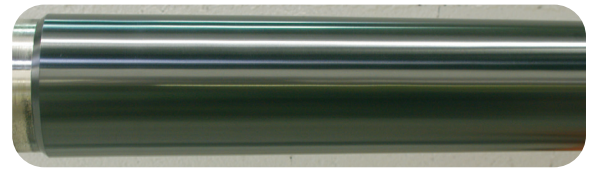


Rotatable Magnetron Sputtering Targets



Titanium Sub-Oxide TiO_x

KEY FEATURES

Saint-Gobain sputtering targets are produced using a proprietary process, which brings a unique set of features to the market. Our TiO_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).

TiO _x Version	TiO _x (1.95)	TiO _x (1.86)
Target Thickness	Up to 9 mm	Up to 9 mm
Thickness profile	Straight or Dog-bone (without joints)	Straight or Dog-bone (without joints)
Target maximum length	Up to 3.9 meters (12.75 feet)	Up to 3.9 meters (12.75 feet)
Target density	4.05 ± 0.1 g/cm ³	4.00 ± 0.1 g/cm ³
Purity	>99.7%	>99.7%
Oxygen stoichiometry	TiO _x with x ≈ 1.95	TiO _x with x ≈ 1.86
Electrical resistivity	2 Ω.cm	0.15 Ω.cm
Surface finish (Ra)	Polished (< 0.8 μm) or Raw	Polished (< 0.8 μm) or Raw

APPLICATIONS

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

- Architectural Glass (high optical index layer)
- Automotive Glass (high optical index layer)
- Solar Glass (for anti-reflective function)
- Display Glass (for anti-reflective function)
- Web Coating on Polymer films (high optical index layer)

Customized compositions with some dopants or minor phase can be considered and developed on-demand.

BENEFITS

- Safe and Stable operation up to 35 kW/m in DC and up to 40 kW/m in AC or pulsed DC
- Lower cost of ownership thanks to the customized “dog-bone” shape option
- Lower dusting (particle release) during operation thanks to our proprietary process and microstructure

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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