



Alumina-doped Zinc Oxide Rotary Target

❖ Product Introduction

Alumina-doped Zinc Oxide Rotary Targets are high-purity conductive oxide sputtering materials composed of aluminum oxide-doped zinc oxide. They offer good electrical conductivity, optical properties, thermal stability, and chemical resistance. Designed for rotary magnetron sputtering systems, these targets provide stable sputtering performance and are suitable for transparent conductive films, photovoltaic devices, display technologies, optical coatings, and other advanced thin-film deposition applications.

❖ Product Characteristics

1. High purity, uniform composition, and stable sputtering performance
2. Good electrical conductivity and optical transparency
3. Good thermal stability and chemical resistance
4. Uniform material composition for consistent thin-film deposition
5. Suitable for rotary magnetron sputtering and advanced PVD applications

❖ Product Specifications

Product ID	Formula	Purity	Size
3008130800RT001	ZnO-Al ₂ O ₃	99.9%	OD133mm x ID125mm x 850mm
3008130800RT002	ZnO-Al ₂ O ₃	99.95%	OD140 mm x ID100 mm x 8mm
3008130800RT003	ZnO-Al ₂ O ₃	99.9%	OD107 mm x ID91 mm x 1730mm
3008130800RT004	ZnO-Al ₂ O ₃	99.9%	OD153mm x ID135 mm x 1550mm
3008130800RT005	ZnO-Al ₂ O ₃	99.95%	OD107 mm x ID91 mm x 1730mm
3008130800RT006	ZnO-Al ₂ O ₃	99.95%	OD153mm x ID135 mm x 1550mm
3008130800RTC01	ZnO-Al ₂ O ₃	Customized	Customized

Chemical Composition (ppm)							
Purity	Mg	Mn	Na	Cu	Cr	Cd	Ni
99.9%	<50	<50	<50	<50	<50	<30	<30
99.95%	<50	<50	<30	<20	<20	<10	<20

❖ Typical Applications

Alumina-doped Zinc Oxide Rotary Targets are widely used for transparent conductive films, photovoltaic devices, display technologies, optical coatings, semiconductor research, and other advanced thin-film deposition applications.

❖ Packaging

Outer packaging: Wooden crate.

Inner packaging: Double-layer vacuum-sealed bag.

Packaging specifications: 1 piece/bag.

Custom packaging is available upon request.

❖ Storage

During transportation and storage, avoid moisture, contamination and direct sunlight. Keep away from fire sources and corrosive substances. Use the bag as soon as it is opened. The shelf life is no more than 24 months from the production date.

❖ Custom specifications are available, including

- Higher purity
- Customized target dimensions
- Customized target lengths and diameters
- Customized bonding and backing tube options
- Customized packaging

❖ Cautions

This product may cause irritation if dust is inhaled or if the material comes into contact with the skin or eyes. Avoid inhalation of dust and contact with skin and eyes. Follow appropriate safety and handling procedures during unpacking, machining, installation, and sputtering operations. We recommend that customers inform us of their intended use before purchasing to ensure proper product handling and application.

Disclaimer

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