



## Alumina-doped Zinc Oxide Sputtering Target

### ❖ Product Introduction

Alumina-doped Zinc Oxide Sputtering Target is a high-purity conductive oxide material with a gray-black solid appearance. It consists of aluminum oxide-doped zinc oxide and offers good chemical stability, electrical conductivity, and optical properties. The material is suitable for thin-film deposition and is widely used in transparent conductive coatings, photovoltaic devices, display technologies, and other PVD sputtering applications.

### ❖ Product Characteristics

1. High purity, uniform composition and stable sputtering performance
2. Excellent electrical conductivity and good optical transparency
3. Good thermal stability and chemical resistance
4. Suitable for transparent conductive films, photovoltaic devices and display applications

### ❖ Product Specifications

| Product ID      | Formula                            | Purity     | Size                     |
|-----------------|------------------------------------|------------|--------------------------|
| 3008130800ST001 | ZnO-Al <sub>2</sub> O <sub>3</sub> | 99.95%     | Ø 50.8 mm x 3.175 mm     |
| 3008130800ST002 | ZnO-Al <sub>2</sub> O <sub>3</sub> | 99.99%     | Ø 25.4 mm x 3.175 mm     |
| 3008130800ST003 | ZnO-Al <sub>2</sub> O <sub>3</sub> | 99.99%     | Ø 50.8 mm x 3.175 mm     |
| 3008130800ST004 | ZnO-Al <sub>2</sub> O <sub>3</sub> | 99.99%     | Ø 50.8 mm x 6.35 mm      |
| 3008130800ST005 | ZnO-Al <sub>2</sub> O <sub>3</sub> | 99.99%     | Ø 76.2 mm x 3.175 mm     |
| 3008130800ST006 | ZnO-Al <sub>2</sub> O <sub>3</sub> | 99.99%     | Ø 76.2 mm x 6.35 mm      |
| 3008130800ST007 | ZnO-Al <sub>2</sub> O <sub>3</sub> | 99.99%     | Ø 101.6 mm x 3.175 mm    |
| 3008130800ST008 | ZnO-Al <sub>2</sub> O <sub>3</sub> | 99.99%     | Ø 101.6 mm x 6.35 mm     |
| 3008130800ST009 | ZnO-Al <sub>2</sub> O <sub>3</sub> | 99.99%     | Ø 152.4 mm x 3.175 mm    |
| 3008130800ST010 | ZnO-Al <sub>2</sub> O <sub>3</sub> | 99.99%     | Ø 152.4 mm x 6.35 mm     |
| 3008130800ST011 | ZnO-Al <sub>2</sub> O <sub>3</sub> | 99.95%     | 234.7 mm x 125 mm x 8 mm |
| 3008130800STC01 | ZnO-Al <sub>2</sub> O <sub>3</sub> | Customized | Customized               |

| Chemical Composition (ppm) |     |     |     |     |     |     |     |
|----------------------------|-----|-----|-----|-----|-----|-----|-----|
| Purity                     | Mg  | Mn  | Cu  | Cr  | Na  | Cd  | Ni  |
| 99.95%                     | <50 | <50 | <30 | <20 | <20 | <10 | <20 |
| 99.99%                     | <20 | <20 | <10 | <10 | <10 | <10 | <10 |

### ❖ Typical Applications

Alumina-doped Zinc Oxide sputtering target is widely used in transparent conductive films, photovoltaic devices, display technologies, optical coatings, and other advanced thin-film deposition applications.

### ❖ Packaging

Outer packaging: Cardboard box or wooden crate.

Inner packaging: Double-layer vacuum-sealed bag.

Packaging specifications: 1 piece/bag.

Customized 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
- More sizes and shapes

### ❖ Cautions

This product may cause irritation if dust is inhaled or if it comes into contact with the skin or eyes. Avoid inhalation of dust and contact with skin and eyes. We recommend that customers inform us of their intended use before purchasing to ensure proper product handling and use.

### Disclaimer

The information provided herein is for reference only and represents typical data, not guaranteed minimum or maximum specification values. It should not be used as a basis for final product design or specific application decisions. All data are subject to change without prior notice. We make no warranties, express or implied, regarding the accuracy or completeness of the information. Actual properties of individual batches may vary. Users are responsible for verifying the suitability of the product for their specific applications.