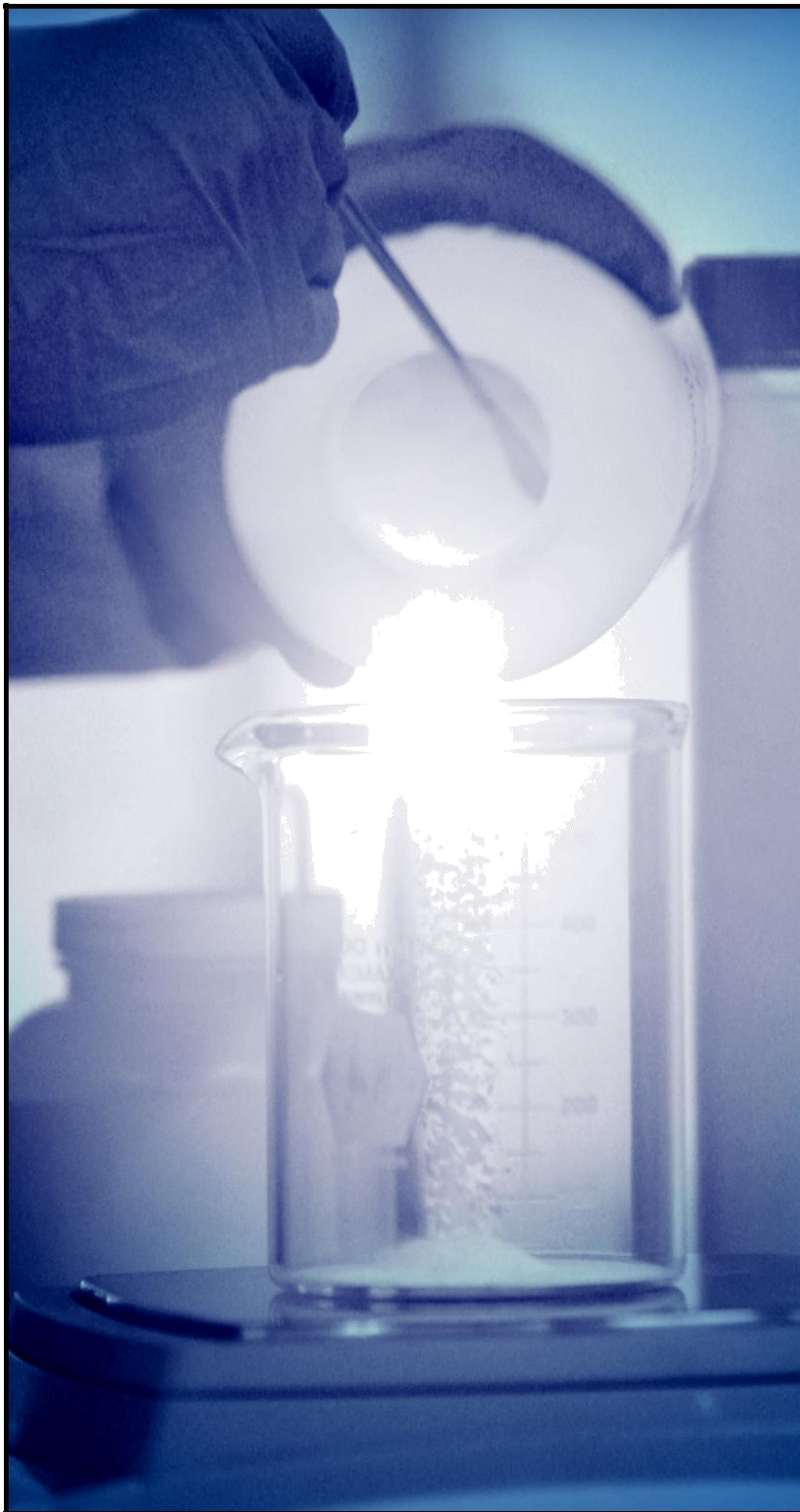


# Indium Gallium Zinc Oxide IGZO Sputtering Targets



Advanced Engineering Materials



## Applications

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- Flat-panel displays

## Features

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- High purity
- Custom Sizes Available

## Process

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- Manufacturing
  - Cold pressed
  - Sintered
  - Indium bonded to backing plate
- Rolled and annealed
- Cleaning and final packaging
  - Cleaned for use in vacuum
  - Protection from environmental contaminants
  - Protection during shipment

## Options

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- 99.99% Minimum Purity
- Up to 12.0" Diameter Targets Available
- Planar Tiles Up to 8" X 5" for Larger Target Configurations
- Offer  $\text{InGaZnO}_4$  and  $\text{In}_2\text{Ga}_2\text{ZnO}_7$
- Custom Stoichiometries Available Upon Request

## Specifications

### Typical Analysis - 99.99% (4N) Purity

Metallic Impurities, ppm by weight

Cd	Cu	Ni	Pb	Sn
<5	<5	<5	<5	<50

InGaZnO <sub>4</sub> Theoretical Density	6.12 g/cc
In <sub>2</sub> Ga <sub>2</sub> ZnO <sub>7</sub> Theoretical Density	6.5 g/cc
InGaZnO <sub>4</sub> Typical Density	>5.2 g/cc
In <sub>2</sub> Ga <sub>2</sub> ZnO <sub>7</sub> Typical Density	>5.5 g/cc
Appearance	White/Beige/Grey/Green
Particle Size	D50

## Advanced Engineering Materials

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