TECHINSTRO®
Vision Beyond Technology

MOLYBDENUM (Mo) COATED GLASS

USER MANUAL

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WorKing

Molybdenum coated soda lime glass slides designed by us are, that they optimize the conductive characteristics of photovoltaic systems that use copper indium sulphide CIS and CIGS (copper indium gallium dieseline) solar cells. It is produced by magnetron sputtering methods using a 99.9% pure Mo target.

Product Series: TIMO

Technical Properties:

Substrate: Soda Lime or Float Glass

Glass Thickness – 2mm

Coating material – Extra Pure Molybdenum

Coating Layer Thickness – 500nm

Resistivity – < 1 ohms/sq.

Transmittance – NA

Surface Finished – Single side coating

Max Operating Temperature – 600 °C

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- **Material Properties:**

Molecular Formula: Mo

Molecular Weight: 95.95 g/mol

Density - 10.22 g/cm3

Coefficient of thermal expansion - 4.8 x 10-6 / K at 25 °C

Thermal conductivity - 138 W/m K at 20 °C

Size Variant

25mm x 25mm | 50mm x 25mm | 50mm x 50mm | 75mm x 25mm

100mm x 100mm

- **Important Note:**

1. Customization can be provided as per size or specifications.

AppliCations

1. Solar cell fabrication
2. De-icing applications
3. Photovoltaic cell making
4. CZTS thin films solar cells
5. CIGS electrode

Storage And Stability

This product should be stored at room temperature and pressure, and its stability is indefinite. It should be placed in a clean environment.

Precautions and Disclaimer

These products are for R&D and industrial use, not for drug, household, personal, or other uses.

Packaging

It is supplied in bundles with highly-protective layers between individual slides within a light-protected, moisture-free, specially manufactured paper sheet.

Handling

At the time of slide handling, the researcher should use powder-free non-latex gloves, which should be handled carefully. While experimenting, if researched using a substrate with bare hands, the chances of contamination of coated surface due to finger oil are very high. Therefore it is advised to use nylon or polyester gloves. Each slide is well packed in moisture-free paper, so they should not rub each other.

If any researcher wants to check the resistivity, it is advisable to measure with the help of 4 probe methods to get an accurate result.

Feel Free to Reach Us
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