

MolyTec

Electric Heating Panels and Cylinders (MoSi₂ + PCW)

up to 1550 °C (2822 °F)



MolyTec electric heating systems are used

- 1) in the **special glass industry** for melting furnaces (Lead Crystal Glass & Soda-Lime Glass and other special glasses) as roof heaters of feeder forehearth.
- 2) in the **semiconductor industry** for
 - vertical diffusion furnaces (Si-Wafers) Ø 300 to 450 mm,
 - horizontal diffusion furnaces (SiC-Wafers) up to Ø 200 mm.

The MolyTec systems are specially designed for a maximal electric power of 150 kW/m². Special dimensions and designs are available according to customer's request.

Material Properties

Operating Temperature	Up to a maximum of 1550 °C (2822 °F) under air (depending on geometry).
Components	A combination of MolyCom®-Ultra or -Hyper heating elements with UltraBoard or UltraVac produced and adjusted on customer's request.
Physical & Chemical Properties of MolyCom®, UltraBoard and UltraVac	Please see the specific data sheets.

Types Available

MolyTec is available in different types and geometries. Possible geometries are for example panels, cylinders/tubes.

Installation

The systems are heated by MolyCom®-Ultra or -Hyper elements. The panels are manufactured for horizontal use with straight or 90° bent terminals. The customer can get any technical advice on design and installation from SCHUPP® Ceramics. Because of the ready-made combination of heating element and insulation board, the installation time can be reduced and the installation is really simple in progress.