



Structured Materials Industries, Inc.

## SMI Custom Process Line Heaters

Structured Materials Industries, Inc. (SMI) provides vapor transport line heating solutions for preventing both condensation and decomposition chemical of vapors. The technology was developed and proven in our applications laboratory through several years of development efforts. Our heating solutions use and include the capability for baking out the gas transport lines. Designed by industry experienced engineers and installed by highly qualified service engineers and technicians, or by the customer, the process line heaters provide constant gas line temperature management for accurate, condensation free, and decomposition free vapor transport.



Image shows an example of the SMI Process Line Heater. This product is suitable for many different thin film deposition processes.

### Specifications:

- Insulation Level: 1.25 R (to 250°C core; 40°C surface)
- Insulation Thickness ½"
- Custom Sleeves (Shape/Thickness)
- Multi-Colored Options
- Control System Configurable

### Fastening Options:

- Lace Assembly
- Snap Assembly
- Velcro Assembly
- Stitched Sealing
- Rivet Sealing
- Resin Sealing

[Download Brochure](#)

[Structured Materials Industries, Inc.](#) (SMI), with over 60 fielded MOCVD tools and 10 MOCVD, CST, FB-CVD, HVPE, and ALD process demonstration tools in-house, has extensive result oriented experience in providing materials, hardware, and device assistance to other businesses as well as research organizations. SMI is a leading provider of thin film research and development MOCVD, PECVD, and ALD deposition systems for electronic, optical and electro-optic device fabrication, among other applications. We produce systems for research and production, in sizes ranging from stand-alone systems to high volume production tools. SMI also maintains an in-house applications laboratory, with facilities for materials

characterization and device fabrication that is used to support our customers material development efforts.

[Structured Materials Industries, Inc.](#) has an extensive history in working with customer/partners to deliver results in SBIR/STTR and other awards. We can provide a support infrastructure for writing award winning proposals and provide the physical support infrastructure for carrying out awarded programs through completing customer innovations or calling on collaborators to fulfill innovations. We are always open to confidentially exploring additional partnerships and collaborations. SMI has worked on various projects featuring Gallium Oxide (in addition to other oxides), TMDs, AlGaIn, InGaIn, BN, Compound Semiconductors, Dielectrics, Ferroelectrics, Phase Change Chalcogenides, Carbides, Diamond, Battery and Fuel Cell Electrodes, Graphene, CNTs, Other Nanowires, Fuel Cell Materials, Thin Film Batteries, Metals, and so on as well as has grown materials on a diverse set of substrates using in-house tools.

To take advantage of SMI material development or consulting services [contact us today](#) to get more information and quoted. SMI is also happy to participate in the development of proposals and budgetary quotations. Sign up today to become an SMI Follower!



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