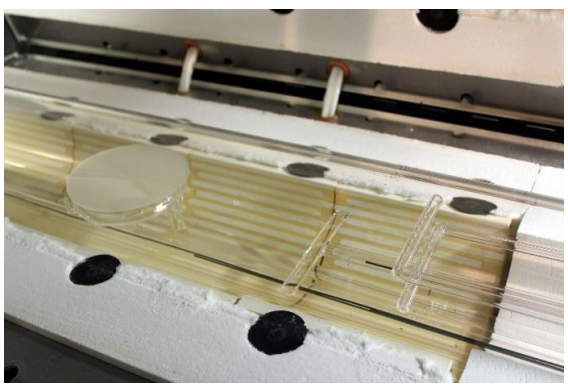
Introducing "CVDHEAT™ Tube Furnace" for CVD, ALD, or CST Growth

Structured Materials Industries, Inc. ("SMI") is pleased to present the CVDHEAT™ Tube Furnace. The CVDHEAT™ Tube Furnace is a professionally designed and fabricated clam shell box that supports the reactor components and parts in either a horizontal or vertical configuration at atmosphere or up to 1100°C in a single or multi-zone. The CVDHEAT™ Tube Furnace is well suited for thin film deposition processes such as CVD, ALD, CST, and many others.

Image shows a front view of the CVDHEAT™ Furnace



The above images provide examples of accessories to the CVDHEAT™ Tube Furnace. The image on the left shows a quartz tube with a substrate holder and quartz boat. The image on the right shows a plasma igniter with heat shields, injector flange, and thermocouple ports that could be integrated into the CVDHEAT™ Tube Furnace.

The CVDHEAT™ Tube Furnace is functional with a manual or automatic process controlled system as well as multiple precursors. Each furnace is designed, fabricated, and tested by SMI personnel. As an option, SMI can also provide installation and full system integration. For more information contact a SMI representative to learn more about this new product!

Download Brochure

Structured Materials Industries, Inc. (SMI), with over 60 fielded MOCVD tools and 10 MOCVD 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.

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 fullfill 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, AlGaN, InGaN, BN, Compound Semiconductors, Oxides, Dielectrics, Ferroelectrics, Phase Change Chalcogenides, 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!

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