

Carbon Fiber Lab

Investigations on the thermal behavior of carbon fibers

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Main focus of investigation

- Investigation of the thermal behavior of carbon fibers in a flow-through fixed-bed reactor, fluidized-bed reactor and muffle furnace.
- Laboratory equipped with HEPA filter fume hoods, allowing safe handling of respirable carbon fiber fragments.

Laboratory equipment

- HEPA filter fume hoods
- Chamber furnace (ThermConcept HTL 04/17 up to 1,750°C)
- Tube furnace with quartz glass reactor (Carbolite CST 12/70S up to 1,200°C)
- Fiber measurement technology (Fiber Monitor MSP Model 7400)
- Gas dosing (O₂ / CO₂ / Ar / N₂ / CO / ethylene)
- Gas measurement technology (Emerson X-STREAM XEGK [CO₂, CO, O₂])