

SIGRABOND Chemical

Standard material samples for resistance tests

SIGRABOND Chemical is a modern high-strength, composite material made of carbon fibers within a plastic or carbon matrix. One of its essential benefits is the extremely wide temperature and corrosion resistance. Nevertheless it may be of advantage to expose SIGRABOND Chemical to our customers process to verify the chemical resistance at real operational conditions.

On request we provide our customers with standardized material samples made of:

- Carbon fiber reinforced carbon (CFRC) or
- Carbon fiber reinforced plastic (CFRP)

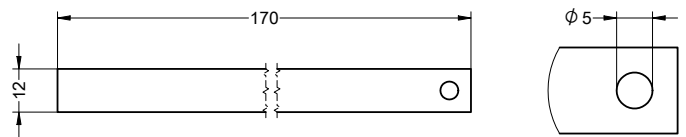
to evaluate the material of choice.

The following test conditions are recommended and should be applied whenever possible:

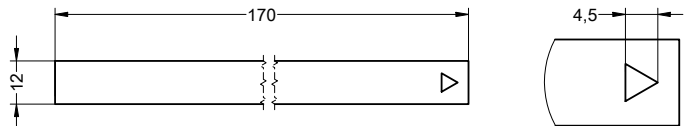
- Duration of test: min. 1000 h
- Location of sample: area of highest temperature and/or corrosive media concentration (maybe it is necessary to expose more than one sample at different locations)

For investigation after exposure our in-house laboratory services can support the resistance assessment by:

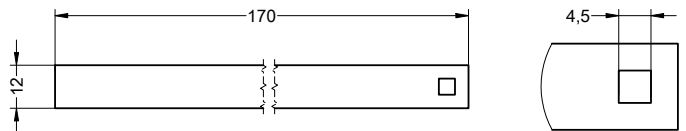
- Visual inspection
- Analysis of mechanical/physical properties
- Micrographic investigation



↑ CFRP sample design



↑ CFRC sample design



↑ Impregnated CFRC sample design



After exposure the contamination of SIGRABOND Chemical standard material samples with process media cannot be excluded also when executing proper cleaning procedures.

Strictly follow the required safety instructions valid for the respective process media.

