

R&D Materials – preliminary data sheet

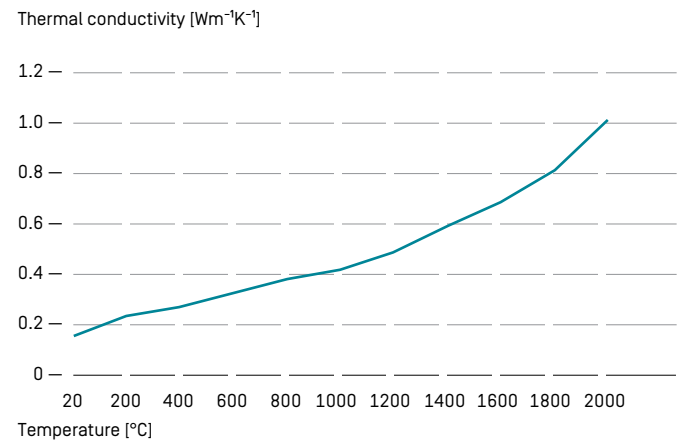
Seamless carbon fiber cylinder for insulation

Applying advanced consolidation technology



↑ Tubular carbon fiber needle felt

Thermal conductivity as a function of temperature [inert gas atmosphere]



Material data of carbon fiber soft felt cylinder

Properties	Units	Options	Example
Inner diameter	mm	max. 1000	445
Wall thickness	mm	max. 50	50
Height	mm	max. 1500	520
Density	g/cm ³	min. 0.10	0.17
Ash content	ppm	1000	1000
Ash content (purified grade)	ppm	< 20	-
Max. application temperature [in vacuum or inert gas]	°C [°F]	max. 2200 [4000]	2000 [3600]



↑ Homogenous fiber structure without gaps and seams

Customized dimensions and surface coatings on request.



Central Innovation | SGL CARBON GmbH
 Werner-von-Siemens-Straße 18 | 86405 Meitingen/Germany
 Dr. Rainer Schmitt | Phone +49 8271 83-1357
 innovative.textiles@sglcarbon.com
 www.sglcarbon.com

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