



Measured Value	Method/Apparatus	Temperature °C	Material/Sample Size in mm/ml	Additional Information	Contact	Institute	e-mail	WWW
thermal conductivity	plate apparatus	-20 ... 50	solids 250 x 250 thickness: < 70		Dr. Rhena Wulf	TU Bergakademie Freiberg	Rhena.Wulf@iwtt.tu-freiberg.de	www.tu-freiberg.de
thermal conductivity	plate apparatus	300 ... 1450	solids 300 x 300 thickness: < 120		Dr. Rhena Wulf	TU Bergakademie Freiberg	Rhena.Wulf@iwtt.tu-freiberg.de	www.tu-freiberg.de
thermal conductivity	plate apparatus	300 ... 1650	solids 400 x 400 thickness: < 110		Dr. Rhena Wulf	TU Bergakademie Freiberg	Rhena.Wulf@iwtt.tu-freiberg.de	www.tu-freiberg.de
thermal conductivity	radial heat flow apparatus	400 ... 1450	solids outer Ø: 60 inner Ø: 12 ... 16 h: 180	various inert atmospheres	Dr. Rhena Wulf	TU Bergakademie Freiberg	Rhena.Wulf@iwtt.tu-freiberg.de	www.tu-freiberg.de
thermal conductivity	radial heat flow apparatus	100 ... 1200	packed beds	various atmospheres	Dr. Rhena Wulf	TU Bergakademie Freiberg	Rhena.Wulf@iwtt.tu-freiberg.de	www.tu-freiberg.de
thermal conductivity	TCT416 - thermal conductivity tester	30 ... 60	solids Ø: 6 l: 35		Dr. Rhena Wulf	TU Bergakademie Freiberg	Rhena.Wulf@iwtt.tu-freiberg.de	www.tu-freiberg.de
thermal conductivity	guarded hot plate	10 ... 40	solids A: min. 300 x 300 thickness: < 80		Michael Brütting	Center for Applied Energy Research e.V.	Michael.brueetting@cae-zeroarbon.de	www.cae-zeroarbon.de
thermal conductivity	guarded hot plate	-170 ...200	solids 2x, Ø: 280 thickness: 1 ... 19	various atmospheres, gas pressures, pressure on sample	Michael Brütting	Center for Applied Energy Research e.V.	Michael.brueetting@cae-zeroarbon.de	www.cae-zeroarbon.de
thermal conductivity	guarded hot plate	-170 ...400	solids 2x, Ø: 200 thickness: 1 ... 28	various atmospheres, gas pressures, pressure on sample	Michael Brütting	Center for Applied Energy Research e.V.	Michael.brueetting@cae-zeroarbon.de	www.cae-zeroarbon.de
thermal conductivity	guarded hot plate	-190 ...600	solids 2x, A: 300 x 300 thickness: 1 ... 70	various atmospheres, gas pressures	Michael Brütting	Center for Applied Energy Research e.V.	Michael.brueetting@cae-zeroarbon.de	www.cae-zeroarbon.de
thermal conductivity	micro guarded hot plate	-30 ... 60	solids, powders A: 50 x 50 thickness: 1 ... 70	various atmospheres	Michael Brütting	Center for Applied Energy Research e.V.	Michael.brueetting@cae-zeroarbon.de	www.cae-zeroarbon.de
thermal conductivity	cut bar technique	-10 ...400	solids Ø: 30, 50 h: 40	various atmospheres, gas pressures, pressure on sample	Michael Brütting	Center for Applied Energy Research e.V.	Michael.brueetting@cae-zeroarbon.de	www.cae-zeroarbon.de
thermal conductivity	hot-wire method	-40 ... 1500	gases, liquids, solids 100 x 40 x 20, 2x	various atmospheres, vacuum up to 100 bar	Michael Brütting	Center for Applied Energy Research e.V.	Michael.brueetting@cae-zeroarbon.de	www.cae-zeroarbon.de
thermal			solids			Center for Applied	Michael.brueetting@cae-zeroarbon.de	



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thermal conductivity	heat flow meter	-20 ... 80	300 x 300 thickness < 80		Michael Brütting	Energy Research e.V.	michael.brueetting@cae-zerocarbon.de	www.cae-zerocarbon.de
thermal conductivity	thermoscan	RT	foils, fibres, thickness: 0.1 ... 4 l/th: ≥10		Michael Brütting	Center for Applied Energy Research e.V.	Michael.brueetting@cae-zerocarbon.de	www.cae-zerocarbon.de
thermal conductivity	guarded hot parallel plate apparatus	0 ... 100	liquids 70	athmosperic pressure	Prof. Dr. Stephan Kabelac	HSU Hamburg	kabelac@hsu-hh.de	www.hsu-hh.de/ thermodynamik
thermal conductivity	guarded hot parallel plate apparatus	-20 ... 150	solids Ø: 100 h: 10	athmosperic pressure	Prof. Dr. Stephan Kabelac	HSU Hamburg	kabelac@hsu-hh.de	www.hsu-hh.de/ thermodynamik
thermal conductivity	comparative stationary method	RT ... 500	solids Ø: 25 h: 25		Dr. Erhard Kaschnitz	Österreichisches Gießerei-Institut	erhard.kaschnitz@ogi.at	www.ogi.at
thermal conductivity	TCT416 - thermal conductivity tester	RT	solids/cross section 5 x 5 or Ø: 6 l: 25 (<5W/mK), 35 (>5W/mK)		Dr. Tim Gestrich	Fraunhofer IKTS Dresden	Tim.Gestrich@ikts.fraunhofer.de	www.ikts.fraunhofer.de
thermal conductivity	3-omega method	-90K ... 600K	thin films and solids	various atmospheres	Jan König	Fraunhofer IPM	jan.koenig@ipm.fraunhofer.de	www.ipm.fraunhofer.de
thermal conductivity	TDTR method	RT ... 150	thin films		Jan König	Fraunhofer IPM	jan.koenig@ipm.fraunhofer.de	www.ipm.fraunhofer.de
thermal conductivity	stationary cylinder gap methode	-40° ... 90°	liquids	up to 30 bar	Dr. Steffen Feja	ILK Dresden gGmbH	steffen.feja@ilkdresden.de	www.ilkdresden.de
thermal conductivity	ring-gap apparatus	-40° ... 80°	liquids 50 ml	pressure 0..100 bar http://pdf.aiaa.org/jaPreview/JTHT/2011/PVJA54343.pdf	Dr. Steffen Feja	ILK Dresden gGmbH	steffen.feja@ilkdresden.de	www.ilkdresden.de
thermal conductivity	two-plate method	-265 ... 50	solids Ø60 x 5 or similar	vaccum conditions varying materials and/or methods possible	Dr. Matthias Schneider	ILK Dresden gGmbH	matthias.schneider@ilkdresden.de	www.ilkdresden.de



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thermal conductivity	transient hot bridge	-15 ... 200	solids in various dimensions, powders, pastes, melts, liquids	ambient pressure and gas conditions	DI (FH) Daniel Lager, MSc / Dr.-Ing. Wolfgang Hohenauer	AIT Austrian Institute of Technology	daniel.lager@ait.ac.at	http://www.ait.ac.at/en/research-fields/thermophysics/
thermal conductivity	heat flow meter	-20 ... 90	solids 200x200x50 mm; powders (V=0.6 dm ³)	various atmospheres, variable contact force, simultaneous cp measurement	DI (FH) Daniel Lager, MSc / Dr.-Ing. Wolfgang	AIT Austrian Institute of Technology	daniel.lager@ait.ac.at	http://www.ait.ac.at/en/research-fields/thermophysics/