



Measured Value	Method/Apparatus	Temperature °C	Material/Sample Size in mm/ml	Additional Information	Contact	Institute	e-mail	WWW
thermal diffusivity	laser flash	25 ... 1600	solids, melts Ø: 12.6 thickness: 1 ... 6		Dr. Rhena Wulf	TU Bergakademie Freiberg	Rhena.Wulf@iwtt.tu-freiberg.de	www.tu-freiberg.de
thermal diffusivity	laser flash	-250 ... 2800	solids, foils, melts Ø: 12.7, var. 5 ... 25.4, 10 x 10 thickness: 0.1 ... 6	atmosphere: air, inert gas, vacuum	Michael Brüttling	Center for Applied Energy Research e.V.	michael.brueetting@cae-zerocarbon.de	www.cae-zerocarbon.de
thermal diffusivity	laser flash	RT ... 1500	solids, melts Ø: 12.6 thickness: 2 ... 5		Dr. Erhard Kaschnitz	Österreichisches Gießerei-Institut	erhard.kaschnitz@ogi.at	www.ogi.at
thermal diffusivity	laser flash	RT ... 1200	solids Ø: 20 thickness: 2 ... 5		Alois Triessnig Gerhard Urbanek	RHI AG TC-Leoben	alois.triessnig@rhi-ag.com / gerhard.urbanek@rhi-ag.com	www.rhi-ag.com
thermal diffusivity	laser flash	10°C ... 1500	solids, powders, melts liquids, pastes Ø: 6 ... 25 h: 0.1 ... 8		Dr. Tim Gestrich	Fraunhofer IKTS Dresden	Tim.Gestrich@ikts.fraunhofer.de	www.ikts.fraunhofer.de
thermal diffusivity	laser flash	RT ... 2000	solids, powders, melts Ø: 12.7 thickness: 1 ... 6	atmosphere: air, inert gas, vacuum	Tillmann Knoche/Renate Küppers	IWM RWTH Aachen	t.knoche@iwm.rwth-aachen.de; r.kueppers@iwm.rwth-aachen.de	www.iwm.rwth-aachen.de
thermal diffusivity	laser flash	-190 ... 1500	Ø: 12.5 thickness: ~ 1.5	various atmospheres	Jan König	Fraunhofer IPM	jan.koenig@ipm.fraunhofer.de	www.ipm.fraunhofer.de
thermal diffusivity	laser flash	RT ... 2000	solids, powders, pastes, melts Ø: 6, 10, 12.7, 10 x 10 h: 0.1 ... 10	various atmospheres thermal conductivity $\lambda = a \times c_p \times p$	Dr. Dirk Helm	Fraunhofer Institut für Werkstoffmechanik IWM	dirk.helm@iwm.fraunhofer.de	www.iwm.fraunhofer.de
thermal diffusivity	ring-gap apparatus	-40 ... 80	liquids 50 ml	pressure 0..100 bar thermal conductivity $\lambda = a \cdot C_p \cdot p$ explanation: http://pdf.aiaa.org/ja/Preview/JTHT/2011/PVJA54343.pdf	Dr. Steffen Feja	ILK Dresden gGmbH	steffen.feja@ilkdresden.de	www.ilk-dresden.de
thermal diffusivity	laser flash	-150 ... 1600	solids in various dimensions (6-25.4 mm), powders, liquids, pastes, melts	$\lambda(T) = a(T) \cdot c_p(T) \cdot \rho(T)$	DI (FH) Daniel Lager MSc / Dr.-Ing. Wolfgang Hohenauer	AIT Austrian Institute of Technology	daniel.lager@ait.ac.at / wolfgang.hohenauer@ait.ac.at	http://www.ait.ac.at/en/research-fields/thermophysics/
thermal diffusivity	laser flash	RT ... 2000	solids, powders, melts Ø: 20 thickness: 3 ... 10	atmosphere: inert gas, vacuum	Dr. Marcus Franz Birgit Tartler	SGL Carbon GmbH	Marcus.Franz@sglgroup.com Birgit.Tartler@sglgroup.com	www.sglgroup.com
thermal diffusivity	laser flash	-100 ... 500	solids 12.6 mm diameter < 3 mm	$\lambda = \rho \times c_p \times a$	Fabia Beckstein	Netzsch Gerätebau GmbH	fabia.beckstein@netzsch.com	www.netzsch-thermal-analysis.com
thermal diffusivity	laser flash	RT ... 2000°C	solids 12.6 mm diameter thickness < 3 mm	$\lambda = \rho \times c_p \times a$	Dr.-Ing. André Lindemann	Netzsch Gerätebau GmbH	andre.lindemann@netzsch.com	www.netzsch-thermal-analysis.com
thermal diffusivity	thermoreflectance	RT	thin films 10 mm x 10 mm thickness: 10 ... 10000 nm	films on substrates (e.g. fused silica)	Dr.-Ing. André Lindemann	Netzsch Gerätebau GmbH	andre.lindemann@netzsch.com	www.netzsch-thermal-analysis.com
thermal diffusivity	laser flash	RT ... 500	solids in various dimensions, powders, pastes, melts, liquids	$\lambda = a \times c_p \times r$	Dipl.-Ing. (FH) Michèle Marson-Pahle	IKV an der RWTH Aachen	michele.marson-pahle@ikv.rwth-aachen.de	www.ikv-aachen.de
thermal diffusivity	laser flash	RT...2800	solids in various dimensions	atmosphere: air, inert gas, vacuum Two-layer systems	Friedel Gormann Dr. Gerald Pintsuk	FZ-Jülich-IEK-4-HML	f.gormann@fz-juelich.de g.pintsuk@fz-juelich.de	02461-614839 02461-616383
thermal diffusivity	laser flash	RT ... 2200	solids, powders, cmc Ø: 10..12 h: 0.25 ... 5	atmosphere: air, inert gas, vacuum	DI (FH) Jens Baber	Fraunhofer ISC - Zentrum HTL	jens.baber@isc.fraunhofer.de	www.htl.fraunhofer.de
thermal diffusivity	laser flash	RT ... 1100	solids, powders, pastes, melts, cmc Ø: 6, 10, 12.7, 25, 10 x 10 h: 0.5 ... 5	atmosphere: air, inert gas, vacuum - in-plane measurement	DI (FH) Jens Baber	Fraunhofer ISC - Zentrum HTL	jens.baber@isc.fraunhofer.de	www.htl.fraunhofer.de
thermal diffusivity	laser flash	RT	solids, pastes, cmc Ø: 6..200 h: 0.25 ... 5	atmosphere: air, inert gas, vacuum	DI (FH) Jens Baber	Fraunhofer ISC - Zentrum HTL	jens.baber@isc.fraunhofer.de	www.htl.fraunhofer.de