



Measured Value	Method/Apparatus	Temperature °C	Material/Sample Size in mm/ml	Additional Information	Contact	Institute	e-mail	WWW
thermal expansion	dilatometer	-180 ... 1600	solids Ø: 4 ... 6 l: 25		Dr. Rhena Wulf	TU Bergakademie Freiberg	Rhena.Wulf@iwtt.tu-freiberg.de	www.tu-freiberg.de
thermal expansion	dilatometer	-180 ... 1600	solids l: 12, 20, 25 powders, pastes, melts Ø: < 10	inert gases, synthetic air, O <sub>2</sub> , N <sub>2</sub> , H <sub>2</sub> , forming gas, process design (e.g. sintering) thermokinetic & kinetically based FEM	Dr.-Ing. Wolfgang Hohenauer	Austrian Institute of Technology	wolfgang.hohenauer@ait.ac.at	www.ait.ac.at
thermal expansion	dilatometer	-180...1650	solids l: 12, 20, 25 powders, pastes, melts Ø: < 10	inert gases, synthetic air, O <sub>2</sub> , N <sub>2</sub> , H <sub>2</sub> , forming gas, process design (e.g. sintering) thermokinetic & kinetic based FEM	DI (FH) Daniel Lager MSc	AIT Austrian Institute of Technology	daniel.lager@ait.ac.at	www.ait.at
thermal expansion	dilatometer	RT ... 1500	solids l: < 50 Ø: < 5		Stephan Vidi	ZAE Bayern	stephan.vidi@zae-bayern.de	www.zae-bayern.de
thermal expansion	dilatometer	RT ... 1500	solids, melts Ø: 6 l: 25		Dr. Erhard Kaschnitz	Österreichisches Gießerei-Institut	erhard.kaschnitz@ogi.at	www.ogi.at
thermal expansion	dilatometer	RT ... 1500	solids l: ~25 thickness: ~ 6	air, argon, vacuum	Alois Triessnig Gerhard Urbanek	RHI AG TC-Leoben	alois.triessnig@rhi-ag.com / gerhard.urbanek@rhi-ag.com	www.rhi-ag.com
thermal expansion	top hat furnace	RT ... 1700	solids l: 50 outer Ø: 50 inner Ø: 12	air	Alois Triessnig Gerhard Urbanek	RHI AG TC-Leoben	alois.triessnig@rhi-ag.com / gerhard.urbanek@rhi-ag.com	www.rhi-ag.com
thermal expansion	thermomechanical analysis / TMA 402	-160 ... 900	solids, powders, melts Ø: < 8 l: < 25		Dr. Tim Gestrich	Fraunhofer IKTS Dresden	Tim.Gestrich@ikts.fraunhofer.de	www.ikts.fraunhofer.de
thermal expansion	thermodilatometry	20 ... 2000	solids, powders, melts Ø: < 6 l: < 25		Dr. Tim Gestrich	Fraunhofer IKTS Dresden	Tim.Gestrich@ikts.fraunhofer.de	www.ikts.fraunhofer.de
thermal expansion	dilatometer	RT ... 1600	solids, melts Ø: 4 ... 11 l: 20, 25	atmosphere: air, inert gas, vacuum	Dr. Ewald Pfaff	IWM RWTH Aachen	e.pfaff@iwm.rwth-aachen.de	www.iwm.rwth-aachen.de
thermal expansion	dilatometer	RT ... 1600	solids l: 12 Ø: <5	various atmospheres	Jan König	Fraunhofer IPM	jan.koenig@ipm.fraunhofer.de	www.ipm.fraunhofer.de
thermal expansion	dilatometer	RT ... 1650	solids, powders, melts Ø: 3 ... 10 l: 10, 25	various atmospheres	Dr. Dirk Helm	Fraunhofer Institut für Werkstoffmechanik IWM	dirk.helm@iwm.fraunhofer.de	www.iwm.fraunhofer.de
thermal expansion	optical dilameter	-265...50	solids 50 x 20 x 20 or similar	vacuum conditions varying materials and/or methods possible	Dr. Matthias Schneider	ILK Dreden gGmbH	matthias.schneider@ilkdresden.de	www.ilkdresden.de