

Measured Value	Method/Apparatus	Temperature °C	Material/Sample Size in mm/ml	Additional Information	Contact	Institute	e-mail	WWW
misc.	thermogravimetry TG + simultaneous DSC (DTA), FTIR, MS	- 160 ... 1600	solids, powders, pastes, melts, liquids, m: < 5g	QMS, FTIR material transition phenomena melts, liquids, solidification & densification chemical reaction analysis process design (debinding ...) thermokinetic & kinetically based FEM	Dr.-Ing. Wolfgang Hohenauer	Austrian Institute of Technology	wolfgang.hohenauer@ait.ac.at	www.ait.ac.at
misc.	thermogravimetry TG + simultaneous DSC (DTA), FTIR, MS	- 160 ... 1600	solids, powders, pastes, melts, liquids, m: < 5g	QMS, FTIR material transition phenomena melts, liquids, solidification & densification chemical reaction analysis process design (debinding ...) thermokinetic & kinetically based FEM	DI (FH) Daniel Lager MSc	Austrian Institute of Technology	daniel.lager@ait.ac.at	www.ait.ac.at
misc.	heating microscope	RT ... 1300	solids, powders 3 x 3 x 3		Stephan Vidi	ZAE Bayern	stephan.vidi@zae-bayern.de	www.zae-bayern.de
misc.	thermogravimetry TG + simultaneous DSC (DTA)	RT ... 1500	solids, powders, pastes, melts, liquids Ø: 7 h: 7 m: 500mg		Stephan Vidi	ZAE Bayern	stephan.vidi@zae-bayern.de	www.zae-bayern.de
misc.	speed of sound pulse-echo-apparatus	0 ... 250	liquids	up to 100 MPa	Prof. Dr. Stephan Kabelac	HSU Hamburg	kabelac@hsu-hh.de	www.hsu-hh.de/thermodynamik
misc.	electrical resistivity by pulse heating	RT ... 1500	solids Ø: 4 h: 50		Dr. Erhard Kaschnitz	Österreichisches Gießerei-Institut	erhard.kaschnitz@ogi.at	www.ogi.at
misc.	thermogravimetry TG + simultaneous DSC (DTA)	RT ... 1500	powder, pastes m: 0.1 ... 10 g	air, argon ...	Alois Triessnig Gerhard Urbanek	RHI AG TC-Leoben	alois.triessnig@rhi-ag.com / gerhard.urbanek@rhi-ag.com	www.rhi-ag.com
misc.	simultaneous thermogravimetry - differential thermal analysis - evolved gas analysis with MS and FTIR	20 ... 2000	solids, powders, liquids Ø: 4 ... 55 h: 1 ... 55	gas transfer via skimmer coupling, orifice or capillary system, weighted sample 1mg ... 500g	Dr. Tim Gestrich	Fraunhofer IKTS Dresden	Tim.Gestrich@ikts.fraunhofer.de	www.ikts.fraunhofer.de
misc.	Seebeck coefficient and electrical conductivity	RT ... 1000	solids		Jan König	Fraunhofer IPM	jan.koenig@ipm.fraunhofer.de	www.ipm.fraunhofer.de
misc.	Seebeck coefficient and electrical conductivity	RT ... 400	thin films		Jan König	Fraunhofer IPM	jan.koenig@ipm.fraunhofer.de	www.ipm.fraunhofer.de
misc.	Fluid-fluid miscibility Viscosity Desity Vapor pressure, etc.	-60 ... 90°	liquids	up to 100 bar	Dr. Steffen Feja	ILK Dresden gGmbH	steffen.feja@ilkdresden.de	www.ilkdresden.de
misc.	Fluid-fluid miscibility, density, viscosity vapor pressure	-40...90	liquids	pressure 0..100 bar	Dr. Steffen Feja	ILK Dresden gGmbH	steffen.feja@ilkdresden.de	www.ilkdresden.de



Measured Value	Method/Apparatus	Temperature °C	Material/Sample Size in mm/ml	Additional Information	Contact	Institute	e-mail	WWW
Force, temperature, thermal expansion	Gleeble	RT ... liquefied material	Every conducting material Various sample sizes (sheet metal, round stock, square bar material,...)	CCT Diagramm Hot tensile test, uniaxial compression test, Welding Process Simulation, thermal fatigue, thermal/mechanical fatigue	Dr. Dirk Helm	Fraunhofer Institut für Werkstoffmechanik IWM	dirk.helm@iwm.fraunhofer.de	www.iwm.fraunhofer.de