KRÜSS Application Report Overview | 14.11.2019

Number	Year	Instrument	Title	Keywords
AR 292 d/e	2019	SRA	Control of polishing processes by measuring surface roughness according to ISO 25178 / ISO 4288	Surface texture, roughness, confocal microscopy, polishing process, ISO 25178, ISO 4288
AR 291 d/e	2019	K100 + SDT	Characterization of a versatile emulsifier for low-viscous formulations and liposomal structures	Emulsifier, liposomes, sprayable formulations, critical micelle concentration, interfacial tension
AR 290 d/e	2019	HPFA	Foam stability and foam structure under high pressure for tertiary oil production	enhanced oil recovery (EOR), surfactant, high pressure, foam, foam stability, foamability, foam structure, pressure dependency
AR 289 d/e	2019	DSA Inkjet	How waveform, surface tension, and viscosity affect the jetting behavior in inkjet printing	inkjet printing, drop watching, surface tension, viscosity, drop volume, drop velocity, satellite drops
AR 288 d/e	2019	SDT	From an immiscible water-oil system to the ultralow interfacial tension of a microemulsion	interfacial tension, hydrotrope, emulsion, cosolvent
AR 287 d/e	2018	K100 + DSA100	Development of a measuring method for characterizing the surface of Pressure Sensitive Adhesives (PSA)	pressure sensitive adhesives, PSA, polarity, hysteresis, Wilhelmy contact angle, sessile drop, captive bubble
AR 286 d/e	2018	MSA	Determine how clean surfaces are: Quickly and on the go	cleaning bath, contamination, surface free energy, sessile drop
AR 285 d/e	2018	DSA100 + ODM	Interfacial rheology of emulsifiers in food	emulsions, foam, oscillating drop, interfacial rheology, food
AR 284e	2017	K100SF	Determining the wettability of carbon fiber tows from single fiber contact angle data	Wettability, single-fiber contact angle, carbon fiber, fiber reinforced polymers
AR 283 d/e	2017	RMFA	Benchmarking the foaming properties of a new, mild surfactant formulation according to ASTM D 1773-07	Personal care, cleansing, surfactant properties, Ross-Miles, foam, ASTM D1173-07
AR 282 d/e	2017	DFA100	A reliable method for monitoring the aging and performance of cooling liquids used in machining processes	Cooling liquids, foam, air release property, foam inhibition
AR 281 d/e	2016	K100	Characterizing particle size of filler materials quickly and easily	Sedimentation, settling, calcium carbonate, filler material, microparticles, Washburn methodcooling liquids, foam, air release property, foam inhibition
AR 280 d/e	2016	MSA	Optimizing flame treatment of polymer surfaces	Surface modification, flame treatment, fiber-reinforced polymer, surface free energy
AR 279 d/e	2016	DFA100	Foam behavior of toothpaste	Foam, foamability, foam stability, foam structure
AR 278 e	2016	MSA, DSA100	Replacing the solid needle by a liquid one when measuring static contact angles	Contact angle, liquid needle, drop deposition, super-hydrophobic surface
AR 277 e	2015	DSA25, K11, DVT50	Surface tension as a basic parameter for controlling drop dispensing of ophthalmic solutions	Ophthalmic solutions, eye drops, surface tension, drop volume, dosing

KRÜSS Application Report Overview | 14.11.2019

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AR 276 d/e	2015	DSA30R	Development of customized demulsifiers	Interfacial rheology, water-in-oil emulsions, demulsifier, crude oil processing, corrosion
AR 275 d/e	2015	DFA100	Comparison of the foam behavior of different types of beer independently of CO2 content	Beverages, beer, foam, foam stability, foamability
AR 274 d/e	2015	DFA100	Foamability of different milk types, and stability and structureof the foam produced	Milk foam, foamability, foam stability, foam structure, temperature dependency
AR 273 e	2014	SITE100	Ultralow interfacial tension in enhanced oil recovery (EOR)	Enhanced oil recovery (EOR), ultralow interfacial tension, surfactant, chemical flooding (S, SP, ASP, micellar), crude oil, microemulsion, emulsion, brine
AR 272 d/e	2014	MSA, DSA100	Why test inks cannot tell the full truth about surface free energy	Contact angle, surface free energy, surface treatment, surface cleaning
AR 271d/e	2013	K100SF	Wettability of carbon fibres using single-fibre contact angle measurements – a feasibility study	Wettability, single-fiber contact angle, carbon fiber, coating, fiber reinforced polymers
AR 270d/e	2012	DFA100	Investigating the foaming behavior of cooling lubricants and the effect of foam inhibitors (antifoams)	Foamability, foam stability, cooling lubricants, surfactants, antifoams
AR 269d/e	2011	DFA100	Investigating the foam-inhibiting effect of antifoaming agents in printing lacquers	Foamability, foam stability, printing lacquers, surfactants, anti-foamer
AR 268d/e	2011	BP100	Kinetic investigations into the effectiveness of surfactants	Surfactants, bubble pressure, dynamic surface tension
AR 267d/e	2010	DFA100, DSA100R	Foam behavior and foam stability of aqueous surfactant solutions	Foam Stability, Foamability, Interfacial Rheology, Surfactants
AR 266d/e	2009	DSA100M	Characterization of microscopically small surfaces on dental implants by using contact angle measurements on picoliter drops	Medicine, dentistry, teeth, contact angle, microdosing, biocompatibility, wetting
AR 265d/e	2009	DSA100	Interfacial rheology measurements on an oil/water system with high-viscosity oils	Interfacial rheology, high-viscosity oil, pressure tensiometry, interfacial tension
AR 264d/e	2009	DSA100	Optimizing the pretreatment of metal surfaces for bonding in vehicle construction	Contact angle, polar and disperse parts, adhesion, surface free energy
AR 263d/e	2008	DSA100, K100	No chance for wetness - Surface science for optimal wood protection	Surface free energy, wood, contact angle, interfacial tension, weathering
AR 262d/e	2008	EasyDrop	The Effect of an Oxygen-Helium Atmospheric Plasma on the Surface Energy of Medical Plastics	Atmospheric plasma, surface treatment, medical plastics, water contact angle, surface energy, hydrophilicity, medicine
AR 261d/e	2007	BP2, DSA100	Surfactant Additives for Pesticide Formulations - Effects on Both Spray Atomization and Substrate Wettability	Dynamic surface tension, contact angle, atomization, wettability, pesticides

KRÜSS Application Report Overview | 14.11.2019

Number	Year	Instrument	Title	Keywords
AR 260d/e	2007	DSA100, K100	Optimising Automotive Coatings - the Balancing Act between Adhesion Energies, Interfacial Tensions, and Spreading Coefficients	Contact angle, adhesion energy, automotive, interfacial tension, surface free energy, wettability, spreading coefficient, dyne pen
AR 259d/e	2007	MobileDrop, DSA100	In-line process control with MobileDrop: monitoring cleaning performance on glass surfaces	Process control, non-destructive test, contact angle, glass, sessile drop
AR 258d/e	2006	MobileDrop	How effective is hot-wax treatment?	Adhesion, water, contact angle, surface free energy, surface treatment, wettability, sessile drop; surfactants; wax; roughness; automobile; cleaning
AR 257d/e	2006	K100	Nanoparticle Surface Energy Determinations	Medicine, pharmacy, adsorption, surface free energy, dispersion, nano particles, insulin
AR 256d/e	2006	DSA100	Ozone Treatment of Polymer Surfaces - How plastics lose their hydrophobia	Polymers, water, contact angle, surface free energy, surface treatment, wettability, sessile drop, wetting envelope
AR 255e	2006	DSA100	Methods for Wettability Determination on Hydrogels	Hydrogels, basic research, methods, polymers, contact angle, wettability, captive bubble, environmental chamber
AR 254d/e	2006	DSA100, K100	Paper wettability by water-based inks	Paints, paper, water, printing, contact angle, surface free energy, surface tension, wettability, pendant drop, sessile drop, wetting envelope
AR 253e	2006	DSA100	Corona Treated Polypropylene Packaging Film	Contact angle, food, inks, polymers, printing, adhesion, surface free energy, wettability
AR 251d/e	2006	DSA100	Surface energy measurement of textiles by captive bubble method	Fibers, textiles, contact angle, surface free energy, wettability, captive bubble, compound materials, polymers
AR 250e	2005	DSA100	Effect of Temperature on the Surface Energy of Solids	Adhesives, surface energy, temperature, sessile drop, contact angle, adhesion, surface tension, metal
AR 249e	2005	DSA100 EDM/ODM	Characterization of liquid foams by the determination of surface rheological properties of surfactant solutions	Foam, surfactants, interfacial rheology
AR 248e	2005	DSA10, K100MK2	Interfacial Tension as a Predictor of the Completeness of Pore Wetting in Epoxy Resin Impregnated Non-Woven Glass	Glass fabric, pore wetting, interfacial tension, micro-void, lead frame, circuit board, composite, non-woven, epoxy resin, viscosity
AR 246d/e	2005	DSA100 EDM/ODM	Stretching Exercises for Drops	Surface rheology, viscoelasticity, foaming, surfactant, elastic modulus, loss modulus
AR 245e	2005	K100, K100SF	The role of surfactants, adhesion energy and interfacial tensions in fibre coating applications	Fiber coating, composite, non-woven, adhesion energy, surfactant, interfacial tension, coating thickness, wear resistance, Marangoni effect, critical micellar
AR 244d/e	2005	DSA100M	Characterisation of Microscopically Small Surfaces by Means of Contact Angle Measurement	Picoliter drops, ink cartridge dosing head, human hair, screw thread, contact angle
AR 243e	2004	DSA100, K100	Choosing a Corrosion Prevention Compound Surface Science Helping to Preserve Aeronautical Equipment	Corrosion prevention compound (CPC), lap joint, aluminum, aviation, wetting, interfacial tension

KRÜSS Application Report Overview | 14.11.2019

Number	Year	Instrument	Title	Keywords
AR 240e	2004	K100	Wettability of Swellable Nonwovens – Determination of Contact Angle Against Swellable Nonwoven Material	Swelling, nonwoven, contact angle, surface free energy, wetting
AR 239e	2003	DSA10, K100	SFE Characterization and Adhesion Properties of High Viscosity Ink Pastes	Printing, surface free energy, wetting, adhesion, viscous ink, fountain solution
AR 238d/e	2003	DSA10HT	Contact angle measurement at high temperatures - Measuring the contact angle of slag melts on graphite and aluminum oxide carrier materials	High temperature, slag melts, contact angle
AR 236e	2003	DSA10, K100	The Washburn "C" Factor for Characterization of Porous Coatings	Washburn, porous coating, c-factor, porosity testing, wetting, blood
AR 235d/e	2003	DSA10	Interfacial tension and wetting in liquid-liquid separation technology	High pressure, interfacial tension, surface tension, wetting, vacuum, extraction, fractionation
AR 234d/e	2003	DSA10	Determination of the SFE of electronic components - A method for evaluating their wetting and adhesive behavior with embedding compounds and adhesives	Printed circuit board (PCB), lead frame, glob top, wetting, OWRK, surface free energy
AR 232e	2003	DSA10, K100	Adhesion Energy and Interfacial Tension - Two Related Coating/Substrate Interfacial Properties Which is More Important for Your Application, and Why?	Interfacial tension, surface free energy, fishing line, coating, adhesion, hotmelt, cardboard
AR 231d/e	2003	DSA10, K100, SITE04	Assessing the cleaning ability of aqueous surfactant solutions on soiled hydrophobic textile fabrics by using CA and SFT measurements	Textile cleaning, washing, rewetting, surfactant, cotton, interfacial tension
AR 230d	2002	DSA10	Der Kontaktwinkel: Beurteilung des Benetzungsverhaltens von Beschichtungsstoffen	Surface free energy, wetting, house paint, self-cleaning coating, soot
AR 229d/e	2000	GH100	Contact Angle Measurements on Large Surfaces	Mobile contact angle measurements, surface free energy, large surfaces, glass, windshield, paper roller, coating
AR 228d/e	2002	K100	Characterization of wettability and surface properties of textile fabrics and fibers	Hair, hairspray, surfactant, carbon fiber, aramid fiber, fiber reinforced composite, nonwoven, paper
AR 227d/e	2002	DSA10	Phase boundaries under pressure	EOR, surfactant flooding, pendant drop, interfacial tension, high pressure, crude oil
AR 225d	2001	DSA10, TDA10	Die mobile Charakterisierung antiadhäsiver Eigenschaften von Sanitärkeramiken	Anti-adhesive coating, sanitary ware, ceramics, surface free energy, mobile contact angle measurement
AR 224d/e	2001	DSA10, K12	Dispersibility predictions – Some practical examples	Carbon black, polymer melt, conductive plastic composite, dispersibility, polyaniline, Fowkes
AR 223d/e	2001	DSA10, K12	Wetting and Adhesion of Hotmelts	Hotmelts, adhesion, surface tension, surface free energy, elevated temperature
AR 222d/e	2000	DSA10	How absorbent are diapers?	Sorption, high-speed contact angle measurements, nonwovens

KRÜSS Application Report Overview | 14.11.2019

Number	Year	Instrument	Title	Keywords
AR 221e	2000	DSA10, K12	Wettabilities and Surface Tensions of Different Paper Types	Nonwoven, paper coating, printing, sorption, wettability
AR 218e	2000	K12	Optimization of antigraffiti coating based on silicon-hybrid systems	Polymer, anti-graffiti coating, wettability, dynamic contact angle, Wilhelmy, surface free energy
AR 215e	2000	BP2	Calculation of Diffusion-Coefficients from the Maximum Bubble Pressure Experiment for Pure n-Alkyl-b-D-Glucosides	Surfactants, dynamic surface tension, diffusion coefficient, alkylglycosides, adsorption
AR 213e	2000	K12, DSA10	Two-Component Surface Energy Characterization As a Predictor of Wettability and Dispersability	Wetting, dispersion, surface free energy, Good's equation, composite materials, carbon black, fumed silica, titanium dioxide, nylon 6.6
AR 212e	1999	BP2	Fountain Solutions for Offset Printing	Offset printing, fountain solution, surfactant, dynamic surface tension, wetting
AR 211e	1999	DSA10, G2	Surface Characterization in Biomedical Engineering	Medicine, biocompatibility, contact angle, surface free energy, surface activation
AR 210e	1999	K12	Measuring Surface Tension and CMC on Cationic Surfactant Solutions	Critical micelle concentration CMC, cationic surfactant, Whatman paper, Wilhelmy method, adsorption
AR 208e	1999	K12	Contact Angle Measurement of Spice Oil on Powder Carrier Systems	Washburn method, powder wetting, pepper oil, starch, salt, contact angle, powder carrier system
AR 207d/e	1998	DSA10	Applications of Sessile-Drop and Pendant-Drop Techniques in Offset Printing Technology	Offset printing, ink, pigment, fountain solution, surface tension, dryography
AR 206e	1996	K12	Contact Angle Determination by the "Straw" Method and Packed Cell Method	Glass fiber, nylon fiber, hair, composite, wetting, straw method, packed cell method, single fiber method, fiber coating
AR 205e	1996	K100, K12	Membrane Wettability	Filtration, polysulfone membrane, membrane wetting, (dynamic) contact angle, Washburn method, Wilhelmy method
AR 204e	1996	K12	Synergistic Aspects of Surfactant Mixtures	Surfactant, micelle, surface tension, CMC, spray atomization, surfactant synergism, SDS, DTAB
AR 203e	1995	DVT10	The Effects of Ageing on the Properties Soybeans Based Cooking Oil	Dynamic interfacial tension, drop volume tensiometry, defoamer, soybean based cooking oil
AR 202e	1995	K12	Surface Tensiometry as a Technique for the Study of polymer/Surfactant	Polymer, surfactant, critical micelle concentration CMC, critical aggregation concentration CAG, rheology, surface tension
AR 201e	1995	K12	CMC as a Function of Head Group Size for Alkyl Alcohol Ethoxylates	Surface tension, surfactant, critical micelle concentration CMC, hydrophilic-lipophilic balance HLB
AR 101e	1994	K14	Evaluating Silicone Hair Treatments	Hair, wetting, silicone polymer, advancing/receding contact angle