

PRESS RELEASE

High concentrated dispersions and packed sediments X-rayed German Federal Office for Radiation Protection granted type approval for separation analyser made by LUM

Berlin, 15 October 2013: The German Federal Office for Radiation Protection granted the type approval pursuant to the German X-ray ordinance (RöV) for the new Separation Analyser LUMiReader X-Ray. The type approval of 2 August 2013, published in German Federal Gazette *Bundesanzeiger* on 18.9.2013, BAnz AT 18.09.2013 B4, certifies the Analyser a fully radiation protected system. LUMiReader X-Ray has been developed and is manufactured and sold by LUM GmbH, Berlin, Germany.

The innovative Separation Analyser LUMiReader X-Ray extends the proprietary near infrared STEP-Technology after the inclusion of visible light now to X-radiation to characterize the separation behaviour of high concentrated, opaque suspensions and emulsions for a broad range of particle sizes under original conditions (no dilution required).

“This is a real ‚quantum leap‘ into a new world – the X-ray technology“, explains Prof. Dr. Lerche, Managing Director of LUM GmbH. „The advantages of LUMiReader X-Ray feature the direct and non-contact measurement of samples of highest concentration, the determination of concentration gradients in nano- and microdispersions and sediments and the determination of time and space-resolved mass concentration of dispersed phases based on separation phenomena. Even packing density gradients in sediments and filter cakes can be analysed.“

All dispersing agents are possible, being solvent or oil or water. Different measuring cells are available.

LUMiReader X-Ray is the ideal extension to the established LUM instruments for dispersions. The identical measuring cells can optically be measured first in LUMiSizer, LUMiFuge or LUMiReader PSA and then be analysed in LUMiReader X-Ray. To the advantages of direct and accelerated stability analysis and particle characterization by near-infrared or visible light, the qualitative and quantitative determination of concentration profiles in separated and high concentrated phases is easily added.



LUM GmbH, Justus-von-Liebig-Str. 3, 12489 Berlin, Germany, phone +49-30-6780 6030,
fax +49-30-6780 6058, info@lum-gmbh.de, www.lum-gmbh.com