Chemetall launches eco-friendly water-based fluorescent penetrant

The innovative fluorescent penetrant product Britemor® 921 (W) offers many benefits to the automotive components market , general industry foundries and NDT inspection/service companies with regard to process cost savings, environmental and performance enhancements.

Baton Rouge, La./USA, New Providence, NJ/USA; Frankfurt/ Germany; August 10, 2015 - Chemetall, a Global Business Unit of Albemarle Corporation (NYSE: ALB), has introduced a new water-based penetrant for eco-friendly and process efficient fluorescent penetrant inspection. Britemor® 921 (W) enables bright and crisp indications on a wide range of materials, including ferrous and non-ferrous metals, and non-porous ceramics, thanks to its very low fluorescent background and excellent wash characteristics. Chemetall's liquid penetrant testing product uses water as the main carrier which is stabilized by a distinctive micro-emulsion technology. These micro-emulsions are thermodynamically stable and composition includes isotropic liquid mixtures of solvent, water and emulsifier. The low viscosity of the Britemor® 921 (W) ensures minimal drag out, reduces overall product and rinse water consumption and minimizes the effluent treatment costs.

Favorable COD and BOD values

The sound ecological properties of Britemor® 921 (W) are based on its very favorable Chemical Oxygen Demand (COD) and Biological Oxygen Demand (BOD) values compared to current generation products. Equipped with a very low COD/BOD ratio, Chemetall can offer its customers a more biodegradable product. The overall low COD and BOD values of Britemor® 921 (W) reduces the amount of contaminants in the rinse water. Consequently, the process requires less consumable, such as activated charcoal, to adsorb organic load in the waste water. Complemented by a low toxic unit value, Britemor® 921 (W) offers the opportunity of a direct discharge to the drain, depending on local water, environment authority regulations.

Self-developing penetrant allows bright indication

Britemor® 921 (W) can be used with all existing Chemetall developer systems (PD3, LD9, water-based developers) or as a self-developing process, avoiding the additional usage and the costs of an extra developer product. The innovative technology is classified Level 1 in accordance with EN ISO 3452-2 and offers many benefits to the automotive components market, general industry foundries and NDT inspection/service companies with regard to process cost savings, environmental aspects and performance enhancement.

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About Albemarle

Albemarle Corporation, headquartered in Baton Rouge, Louisiana, is a premier specialty chemicals company with leading positions in attractive end markets around the world. With a broad customer reach and diverse end markets, Albemarle develops, manufactures and markets technologically advanced and high value added products, including lithium and lithium compounds, bromine and bromine derivatives, catalysts and surface treatment chemistries used in a wide range of applications including consumer electronics, flame retardants, metal processing, plastics, contemporary and alternative transportation vehicles, refining, pharmaceuticals, agriculture, construction and custom chemistry services. Albemarle is focused on delivering differentiated, performance-based technologies that deliver innovative and sustainable solutions to its customers. Albemarle employs approximately 6,900 people and serves customers in approximately 100 countries. Albemarle regularly posts information to www.albemarle.com, including notification of events, news, financial performance, investor presentations and webcasts, Regulation G reconciliations, SEC filings and other information regarding Albemarle, its businesses and the markets it serves.

Chemetall Surface Treatment, a business unit of Albemarle Corporation, is a leading global supplier of specialty chemicals with a focus on processes for the surface treatment of metals and plastics. To learn more, visit www.chemetall.com.

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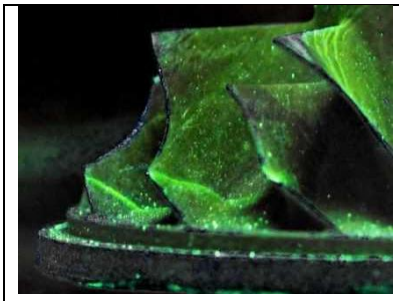
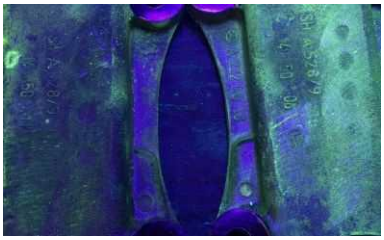
Photos:

	The easy washing characteristics and low fluorescent background of the unique micro-emulsion technology Britemor® 921 (W) allow for bright and crips flaw indications. © *Chemetall GmbH*
 *left side:* *right side:* *Britemor 921(W)* *current generation product*	Compared to current generation fluorescent penetrants, Britemor® 921 (W) offers many benefits to users with regard to process cost savings, environmental aspects and performance enhancements. © *Chemetall GmbH*