

Video microscope visualises particles without sampling



The "ParticleView V19" is a probe-based video microscope from Mettler-Toledo. This instrument visualises particles and particle mechanisms, capturing high-resolution images continuously under a wide range of process conditions without the need for sampling or offline analysis. Particles and structures often change when sampled, so visualising crystals, droplets and other particle structures inline allows transient events and elusive mechanisms that may

be critical for product or process optimisation to be characterised. In addition to that, important process events and upsets can also be investigated quickly and reliably, and evidence-based decisions can also be made at lower cost.

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Mobile app converts a phone to a film thickness gauge

DeFelsko has introduced the "PosiTector SmartLink", a free mobile app that turns your cell phone or tablet into a virtual PosiTector gauge. It accepts all "PosiTector 6000", "RTR-H", "SPG" and "DPM" probes, easily converting to a coating thickness gauge, replica tape reader, depth micrometer surface profile gauge or dewpoint meter. Currently available for iPhone, iPad or iPod Touch, an Android version will be launched later this year.

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Innovative approach to TiO₂ use gives better hiding power

DuPont Titanium Technologies has worked with partners to develop its "Ti-Pure One Coat" technology. The result is "Ti-Pure Select TS-6300" titanium dioxide, a product made using DuPont's proprietary chloride-based process. Superior hiding power can now be combined with flat and low-sheen coatings in a single coat, thanks to an inorganic surface treatment that prevents the TiO₂ particles from crowding and hence becoming less effective.

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Paint and graffiti strippers are eco-friendly

Cortec has added two products to its eco-friendly and sustainable product lines. "Eco-Clean VpCI-434G" and "VpCI-434L" are rapidly biodegradable, non-corrosive, low-toxicity paint and graffiti strippers designed for a wide range of industrial paint removal applications. They have been formulated using environmentally safe benzyl alcohol to replace the now banned methylene-chloride-based paint removers. The first is a smooth flowing gel that provides vertical cling to surfaces for the toughest stripping projects; the other is a liquid solution. They use special wetting agents to penetrate deep into coatings, breaking them down and softening for easy removal of inks, acrylics, two-pack and one-pack urethanes, alkyds, lacquers, varnishes and adhesives; an aqueous cleaner should then be used to prevent contamination of a later coating. The products can be used on a vast range of surfaces including metals and road surfaces.

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Electrical steel varnish with green credentials

Axalta has launched its next generation C5 varnish "Voltatex 1250V". Part of the "Voltatex" family of electrical insulation products, it can be used in electric motors, small and medium power tool generators, traction motors and electric vehicles. Its slitting, punching and welding properties make it suitable for the manufacture of magnetic cores of electrical machines. The cured varnish has a glossy light grey surface with improved scratch and corrosion resistance. The product is non-acidic, waterborne, chromium-VI-free and REACH-compliant.

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