

Next-generation 'non-phosphate' pre-treatment, aluminium finishing and anodising

CHEMETALL, a developer, manufacturer and supplier of speciality chemical products, exhibited at FABTECH in November. At the show, Chemetall presented its advanced pre-treatments, aluminium finishing and anodising technologies.

"We were excited to return to FABTECH and share Chemetall's outstanding 'Cut It, Clean It, Coat It, Conserve It' product portfolio," said Suresh Patel, business manager, general industry.

"They are developed to improve overall process efficiency and performance, and reduce operation costs required in today's surface finishing industries."

Chemetall showcased its complete portfolio of aluminium finishing processes, now complemented by a full line of cutting edge anodising products.

Chemetall has been developing, manufacturing and supplying chemical products for more than a century. The company offers products ranging from metalworking fluids, and drawing and

stamping compounds, to cleaners, rust preventatives and surface treatment chemistries. Its integrated products, chemical management systems, process equipment and technical service programmes deliver efficient solutions for industrial manufacturing needs.

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New cutting fluid for efficiency and reduced workplace pollution

WITH its new water-soluble Cool 3 cutting fluid, Buehler – ITW Test & Measurement GmbH meets the demand for an efficient and eco-friendly coolant/lubricant for use in materialography and production.

Cool 3 removes heat, abrasion products and chips quickly and efficiently from the cutting surface, enabling high

sectioning performance and throughput. The transparent cutting fluid features a boron-free formula without mineral and synthetic oils, and has a pleasant smell, which avoids negative impact on the health and well-being of laboratory and production staff.

At a recommended concentration of four to eight per cent in water, Cool 3 is suited to sectioning and grinding tasks encountered in environments ranging from research laboratories to industrial quality control, and for a wide range of materials, including ferrous and non-ferrous metals, plastics and composite materials, and ceramics.

Owing to its high stability, Cool 3 offers a long useful life in recirculating cooling systems. The coolant/lubricant prevents corrosion and helps to maintain the quality of chucks without leaving a sticky residue.

Cool 3 is available in containers of one and ten litres, and is compatible with all abrasive wheels used on abrasive cutters from the AbrasiMet, AbrasiMatic and Delta series, as well as the IsoMet™ and PetroThin™

precision cutters and the new PlanarMet 300 bench-top planar grinding machine.

It is also suitable for use with additional Buehler products used in sample preparation, such as AddiCool, an additive specifically designed to prevent galvanic corrosion of non-ferrous metals, or the anti-bacterial system cleaner Reciclean. Third-party instruments may also benefit from the advantages offered by Cool 3.

Buehler – ITW Test Measurement GmbH, based in Düsseldorf, Germany, has been a manufacturer of scientific equipment, supplies and accessories for use in metallography and materials analysis for 75 years, and also offers a broad range of hardness testers and hardness testing systems.

A network of branch offices and dealers provides customers with support and service around the globe, while the central lab located in Düsseldorf offers assistance with all application-related questions or the development of repeatable specimen preparation processes.

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The new cutting fluid Cool 3 ensures efficient removal of heat and particles

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