

Lubricants & Surface Prep Roundup

compiled by the Editors at *Fastener Technology International*

Suppliers have responded to our call for the state-of-the-art in lubricants and surface preparation equipment and technology.

Lubricants for Cold Heading & A Broad Range of Additional Lube Products

Information from CONDAT of France, says, "CONDAT offers a wide range of lubricants dedicated to cold heading operations. Included are CONDAT cold forming vegetable oils.



"EXTRUGLISS GREEN oils are vegetal-based oils that improve productivity and tool life. Thanks to the high level of lubricity of vegetal-base oil (three times more efficient than standard mineral-base oils), EXTRUGLISS GREEN enables the manufacture of very difficult parts while increasing the OEE (efficiency of your process) and reducing your tooling budget. These oils can be used also for heavy-duty forming operations (screw, bolt, nuts and extrusion).

"High-performance EXTRUGLISS GREEN oils are also dual-purpose oils. They have been specially formulated to provide both superior lubrication characteristics to machinery as well as outstanding lubrication for your cold heading process.

"With a high flash point, ensuring lower mist and smokes, and being free of chlorine, EXTRUGLISS GREEN oils have a reduced impact on the environment and gives operators a friendly working environment. Thanks to their responsible approach, these lubricants are not subject to UTIF tax due in Italy on imported mineral lubricants.

"In Michigan, USA, one CONDAT customer has compared in detail the usage of EXTRUGLISS GREEN with its previous mineral oil-base product. An Engineering Technician for the company stated, 'We have analyzed both the die side and commodity way oil on our **National Machinery** and **Nedschroef** cold forming machines. In addition, we measured die life of some piercing tools when using the conventional previous oil versus the EXTRUGLISS GREEN. We noticed 40% less usage of EXTRUGLISS 68 G versus previous mineral oil due to reduced smoke, lower carry-off and ability to recycle the EXTRUGLISS GREEN. Moreover, depending on the diameter of nuts produced, piercing and extrusion tool usage could be reduced between 28% to 67%. All together, we managed to save at least more than US\$24,000 on just three piercing tools in 2017 versus 2016 via improvement of die life thanks to EXTRUGLISS A 68 G usage.'

"Being present at all stages of the wire process with its lubricants global offer, CONDAT represents the most complete supplier for the fastener industry with strong lubrication expertise, comprehensive range of products and innovative abilities on responsible and

sustainable solutions.

"With over 160 years' experience in the lubrication field, CONDAT has developed a wide range of products to answer the processing needs of its customers. Fastener industry applications cover various operations including surface treatment, drawing skin pass, cold heading, thread rolling, heat treatment, etc. High pressures exerted between the tool and the part require the use of high-performance lubricants to avoid premature wear and tool breakage." www.condat.fr

Dry Film Lubrication of Fasteners

Greg Terrell, Director Business Development, **COVENTYA Inc.**, Brooklyn Heights, OH, US, says, "For the dry film lubrication of fasteners, COVENTYA and **microGLEIT** have joined forces. New assembly techniques and lightweight materials in the automotive industry raise the bar for friction requirements of fasteners. With second to none corrosion protection from COVENTYA such as PERFORMA Zinc-Nickel and FINIDIP or LANTHANE passivates, the high-end range of specialty lubricants for fasteners from microGLEIT is a perfect fit.

"The microGLEIT portfolio for fasteners includes not only innovative dip-spin lubricants for coated steel fasteners like zinc, zinc-nickel, zinc-flake, phosphate, but also for massive aluminum, titanium or stainless steel fasteners—for all ranges of coefficient of friction. The product offering is rounded out with tools like universal lubricating sprays (e.g., DF977S), which many OEMs utilize at their assembly line in case a batch of fasteners isn't working.

"Other examples of problem-solving technology are dry-to-touch oil replacement for phosphated fasteners (e.g., DCP9300) or specialty lubricants for larger dimension fasteners that need to be post rolled (e.g., DF910). Together with COVENTYA's global tech service forces and the highly recognized quality program COVENTEC, we make sure that the quality of each and every fastener that is treated with COVENTYA coatings and microGLEIT dry film lubricants is performing as it should be. It's the lubricant, application and equipment that matter equally when it comes to high-end friction adjustment.

"Besides tribology solutions for threaded connections microGLEIT offers much more, like innovative, environmentally sound white grease pastes, etc."

www.coventya.com / www.microgleit.de



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