



TO LUBE OR NOT TO LUBE?

LUBRICANTS AND CLEANERS WORK LITERALLY HAND-IN-HAND

Tribologists, “grease monkeys with PhD’s,” do more than study the mechanics, chemistry and physics of equipment lubrication — they also develop products for getting off the stuff they put on. Here, three leading companies discuss their latest contributions to slippery science.

DAYTON PROGRESS

Welcome to the world of nanoparticles. Using nano-ceramic particles that act as sub-microscopic ball bearings to provide continuous lubrication to steel surfaces, DAYLube’s new high performance nano-ceramic grease maintains its original viscosity and adhesion even after 100,000 production strokes — 10 times longer than other greases to significantly extend service intervals for all types of production equipment.

With a much lower coefficient of friction at all temperatures than traditional PTFE greases, chemically inert DAYLube is also environmentally friendly. DAYLube provides unparalleled friction reduction and wear resistance, and maintains its viscosity across the full temperature range, making it ideal for a wide range of applications, such as the protection of bearings, bushings cables, cams, chains, conveyors, gears, lifters, machine parts, robotics, slides, wear plates and more.

DAYLube operates in temperatures from -40° to 800°F — and its nano-ceramic particles remain intact to 2,500°F. It survived the ASTM E four-ball weld test with no weld and minimal damage to all ball bearings. Competitive brands, the company says, produced a soft weld after two seconds and complete failure and major damage to bearings. DAYLube

has high load-bearing properties, a low dielectric constant, does not contain metal or silicone and is resistant to steam, acids and most chemicals.

“Customers using DAYLube report significantly longer service life — up to 10 times longer — than traditional PTFE lubricants” says Dayton Progress marketing communications manager Brian Marsh. “Even when compared to nanotech products, DAYLube has a lower cost per ounce. All factors considered, there is not a better lubricating value than DAYLube.”

DAYLube is available in 16-ounce tubes and jars and one- and five-gallon pails. Industries using DAYLube include aerospace, agricultural, automotive and transportation, general manufacturing, marine, material handling, medical/scientific and military/national defense.

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DAYLube from Dayton Progress contains nano-ceramic particles that act as tiny ball bearings. The result is a lubricant that lasts 10 times longer than standard greases, while maintaining viscosity across the full temperature range.

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KLEIN TOOLS

Klein has observed a distinct uptick in retrofitting technology in commercial and residential properties. Contractors working in occupied offices and homes must minimize installation messes to avoid penalties or fines. With traditional lubricants, contractors lay down a tarp, lubricate the wires, then pull them through trays or drop ceilings while trying to avoid spilling lubricant onto carpeted floors or furniture. This procedure is messy and time consuming. Klein Foam Wire Lubricant offers a new alternative.

through. The foam won't drip out even if it is used in vertical conduit. Klein's Foam Wire Pulling Lubricant also wipes away clean and won't stain hands, clothing or carpet."

Based on job site pulls with foam in 3/4-inch conduit, Klein claims its foam lubricant delivers four times greater yield than gels or waxes. One 19-ounce can equals four quarts of wax/gel lubricants — and fits easily into a tool bag.



Klein Tools' Wire Pulling Foam Lubricant shoots into the conduit, not onto the wire, and will not drip even when used in vertical conduit placements. It wipes away clean and leaves no stain.

"Instead of spreading it onto the wires, our foam lubricant is applied directly into the conduit," explains Klein Tools' senior product manager Dave Mueller. "It fills the conduit and coats the wires as they are pulled

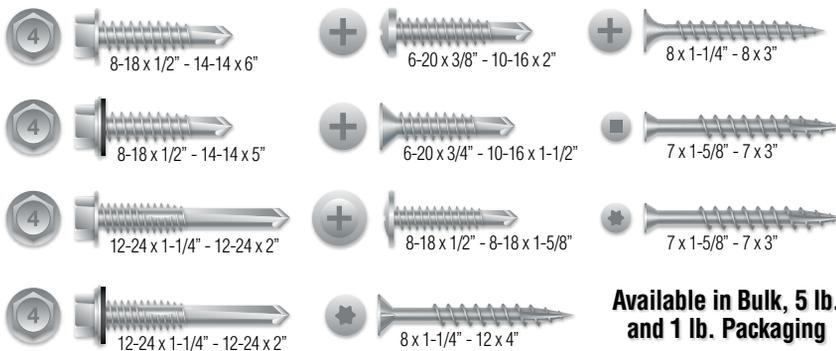
"An electrician can spend hours applying traditional wire pulling lubricant and then cleaning up the mess afterward," Mueller adds. "Klein's innovative foam lubricant eliminates all of that, saving time and money."

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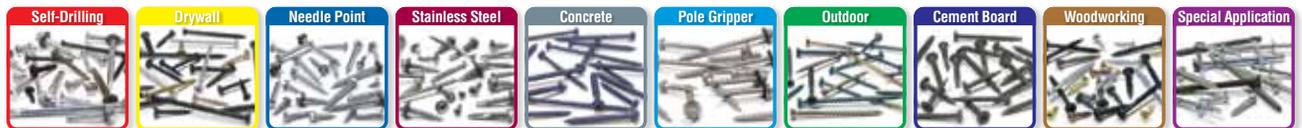
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WALTER SURFACE

"As technology evolves in the metalworking industry, companies are looking for cost effective, hazard-free and environmentally friendly solutions to help them work better," begins Dan Pirro, vice president, international marketing for Walter Surface Technologies' Bio-Circle division. "At Bio-Circle, we have invested in developing next-generation cleaning technology that is VOC- and solvent-free, nonflammable and noncorrosive. We call this technology Nature Boost."

Nature Boost is derived from vegetable extracts exclusive to Bio-Circle. This powerful compound dissolves oils, greases, inks, adhesives and paint. It is offered in several lines including: CB 100, a natural water-based cleaning and degreasing solvent for steel and stainless steel, and CB 100 ALU cleaner and degreaser for aluminum and non-ferrous alloys.



PIRRO

Also in the line is GS 200, which is perfect for the most extreme applications, and BIO-CIRCLE ULTRA heavy-duty cleaning and bioremediating liquid for Bio-Circle Industrial Parts Washing Systems.

Nature Boost is nonflammable, VOC-free, nontoxic and bio-renewable. Unlike petroleum-based cleaners, it will not get saturated with oil, stays clean even after heavy use and eliminates harsh solvents. Bio-Circle is committed to "Making green work." **CS**

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Walter Surface Technologies' Bio-Circle Nature Boost dissolves oils, greases, inks, adhesives and paints. Versions are available for steel, aluminum and parts washing systems.



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