



NEWS RELEASE

Contact:

Mark W. Scherer

Manager-Communications

419-931-6312

mscherer@masterchemical.com

www.masterchemical.com

TRIM[®] MicroSol[®] 690XT Receives Pratt & Whitney Approval: PMC 9293

Perrysburg, Ohio, June 19, 2015 — Master Chemical Corporation is very pleased to announce that TRIM[®] MicroSol[®] 690XT has gained the Pratt & Whitney approval PMC 9293 for contact with gas turbine engine parts made from steels, stainless steels, nickel-based alloys, cobalt-based alloys, aluminum, magnesium, titanium, and titanium alloys. MicroSol 690XT is a high-lubricity, low-foam premium semisynthetic metalworking coolant. It has a very robust stability package for long sump life, provides exceptional foam control, and has an excellent environmental and regulatory profile. MicroSol 690XT is Boron and halogen free, and contains no nitrites, triazines, phenols, chlorinated, or sulfurized EP additives. MicroSol 690XT dramatically extends useful life without the need for tank-side biocides or fungicides and requires no special disposal or recycling techniques.

Pratt & Whitney, a United Technologies Corp. company (NYSE:UTX), is a world leader in the design, manufacture and service of aircraft engines and auxiliary power units. Pratt & Whitney reported an operating profit of \$1.9 billion in 2013 on revenues of \$14.5 billion. The company has approximately 31,500 employees who support more than 11,000 customers around the world.

Pratt & Whitney's large commercial engines power more than 25 percent of the world's mainline passenger aircraft fleet. The company continues to develop new engines and work with its partners in International Aero Engines and the Engine Alliance to meet airline customers' future needs.

Pratt & Whitney has built a long and distinguished record of providing top-of-the-line military engines to 29 armed forces around the world. Pratt & Whitney engines power front line fighters, such as the F-15 Eagle, F-16 Fighting Falcon, F-22 Raptor and F-35 Lightning II, as well as the C-17 Globemaster III military transport and Boeing's KC-46 Tanker.

MicroSol 690XT has produced astonishing results in the aerospace industry. A great example is Hy-Speed Machining, an Oregon job shop whose majority of work is for the aerospace industry. They run aluminum along with lots of tough-to-machine Inconel[®] and other aerospace alloys. Having to stop their CNC machines to add tapping fluid to cut challenging metals was costing them a lot of money, both in production time and tapping fluid. With a successful trial, they changed the whole shop over to MicroSol 690XT with impressive results.



CNC programmer Mike Mills, Jr. has been amazed at the difference in production and huge cost savings since their switch to premium semisynthetic MicroSol 690XT.

Mills cites the new coolant's performance with a recent job cutting Inconel, "Since we switched to the MicroSol 690XT, we were able to increase our surface footage, our speed rates, our chip loads, and our tool life. We literally get up to 6 times the tool life that we were getting with the former coolant. On this one job we went from 12 minutes a part down to 4 1/2 minutes—with a tenth of the coolant cost we had before.

"With this Inconel job," he continues, "we use a \$450 drill. Before we were going through four to five of them on the run of 150 parts. With the MicroSol 690XT we use ONE drill for the entire run and it's still good to run more parts! We definitely have cut our tool and coolant costs down, sped the run time up... we are looking at saving thousands of dollars on this job." And that is just one example of the dramatic results they see with MicroSol 690XT day in and day out.

"It has really changed our world here at Hy-Speed Machining, it has been a great success for us," adds Mike. "MicroSol 690XT has helped our bottom line tremendously; with the savings on coolant, on tooling costs, the time it took to switch out tools, and the faster run times, we'll see savings of hundreds of thousands a year. It's incredible."

For more information and video interviews from Master Chemical's customer's using TRIM MicroSol 690XT, visit our website at: www.microsol-690xt.com.

About Master Chemical Corporation — Master Chemical Corporation was founded on November 13, 1951. Since then, working closely with the worldwide metalworking community, Master Chemical Corporation has developed and marketed a full line of specialty cutting and grinding fluids, cutting oils, concentrated washing and cleaning compounds, and rust preventives under the TRIM® and Master STAGES™ brand trademarks. These products are both environmentally sound and when used in conjunction with Master Chemical's XYBEX® Coolant Recycling and Filtration Systems, are the most durable and stable products available anywhere today. Master Chemical has always been committed to the safety of the people who use our products, the protection of our planet and the environment we live in, as well as the overall impact on our customers' profitability. Master Chemical serves customers globally. For further information, please contact a local distributor, which you can find at <http://www.2trim.us/distributors.php>, or call us at 800.537.3365, or visit <http://www.masterchemical.com/>.

###