



NEWS RELEASE

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Boeing Approves TRIM[®] MicroSol[®] 590XT for Aerospace Manufacturing

TRIM[®] MicroSol[®] 590XT, an advanced technology aerospace semisynthetic microemulsion, has received Boeing process spec number BAC5008 approval for areas 5 and 6, which includes machining titanium alloys.

Perrysburg, Ohio, February 28, 2017 — Master Chemical Corporation is pleased to report that TRIM[®] MicroSol[®] 590XT, an advanced technology aerospace semisynthetic microemulsion, is qualified for areas 5 and 6 of the Boeing process spec BAC5008. Boeing usage area 5 approval includes machining of non-sealant and non-paint parts not described in BAC5008 specification areas 1 through 4, while area 6 includes machining, grinding, or cutting detail parts and assemblies made of titanium alloys. MicroSol 590XT approval can be found in Boeing document PSD 6-137.

Titanium and titanium alloys are commonly used in the aerospace industry, including by Boeing and their subcontractors. This approval by Boeing allows them to use MicroSol 590XT to machine these high-tech aerospace alloys to make parts for all space and aircraft including the 737, 767, 777, and 787 families of airplanes.

“MicroSol 590XT not only meets the demands of specific aerospace customers but it is also environmentally and regulatory compliant for the foreseeable future.” stated Master Chemical’s Director of Global Aerospace Strategic Business Unit, Monte Dhatt.

David A. Barned, Vice President-Global Marketing for Master Chemical stated, “TRIM MicroSol 590XT is the next step in the evolution of our industry leading MicroSol[®] series of metalworking fluids. It delivers improved sump life over our most popular TRIM[®] MicroSol[®] 585XT and incorporates our proprietary lubricity package developed as part of 2014’s release of TRIM[®] MicroSol[®] 690XT. Our innovation team took their learnings to the next level with 590XT by creating a formula, which protects the most sensitive alloys and addresses our customers’ environmental concerns by utilizing only the safest available components. We expect 590XT to really provide a one fluid solution for high-tech manufacturers who need the toughest performing, non-staining, and very environmentally-friendly cutting fluid.”

MicroSol 590XT improves on the proven performance of previous generations with a robust stability package using environmentally safe ingredients. The formula is a favorite of production managers, environmental advocates, and safety professionals. MicroSol



590XT is free of chlorine, triazine, formaldehyde releasers, phenols, boron, DCHA, and secondary amines. It dramatically extends useful life without the need for tank-side biocides or fungicides. MicroSol 590XT provides superior corrosion inhibition on all ferrous and nonferrous metals and keeps parts and machines very clean to reduce maintenance and production time.

MicroSol 590XT is low foaming for today's demanding high-pressure, high-volume applications and it provides an optimized combination of cooling and lubricity to titanium, aluminum, steel, stainless steel, and Inconel® machining applications.

About Boeing

Boeing is the world's leading aerospace company and the largest manufacturer of commercial jetliners and military aircraft combined. Additionally, Boeing designs and manufactures rotorcraft, electronic and defense systems, missiles, satellites, launch vehicles, and advanced information and communication systems. As a major service provider to NASA, Boeing operates the Space Shuttle and International Space Station. The company also provides numerous military and commercial airline support services. Boeing has customers in more than 90 countries around the world and is one of the largest U.S. exporters in terms of sales.

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, and 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/>.

Photo: TRIM® MicroSol® 590XT - Milling

<http://pdocs.masterchemical.com/mcc/docs/db-i/app1024-T/MicroSol-590XT-milling.jpg>

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