

APPROVED FOR THE
AEROSPACE
INDUSTRY





TRIM® MicroSol® 590XT



B O E I N G FULL AEROSPACE A P P R O V A L

The newest TRIM® cutting edge fluid,
MicroSol® 590XT is a maximum lubricity,
advanced technology, semisynthetic
microemulsion, specifically developed to
meet the aerospace industry's most stringent
specifications.

MicroSol 590XT surpasses the most stringent chemical content, environmental and machining requirements of the global aerospace industry – with flying colours.

Highly lubricious MicroSol 590XT has it all: absolute foam control, dramatically extended sump life, superior corrosion and surface finish protection – all delivered with reduced downtime and an increased bottom line.

Exceed your production expectations with MicroSol 590XT.

Case Study

OPERATION:

High-production machining of aerospace materials APPLICATION:

A major aerospace manufacturer primarily machines aluminium, titanium, stainless, Inconel* and other aerospace alloys for the global aerospace industry. As a premier supplier of structural components to aerospace Tier 1 and Prime OEMs, the high-production facility runs multiple shifts on approximately 35 machining centres.

Previously, they had used a coolant that had the necessary aerospace approvals, but experienced problems with odour, residue and foaming. Offering foam control and approvals from major aerospace manufacturers, premium MicroSol 590XT was a logical switch. Running MicroSol 590XT, the customer has seen an improvement in overall machine cleanliness, their foul odour and foam issues are gone and they are achieving excellent tool life and surface finish on their parts. They're completely impressed with the cost effectiveness and performance of MicroSol 590XT.

See your production soar with MicroSol 590XT!



TRIM® MicroSol® 690XT



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Meeting increasing demands of the aerospace industry head-on, TRIM® MicroSol® 690XT is the pinnacle of high-performance microemulsions. It delivers unsurpassed lubricity with dramatically extended tool life and improved foam control.

MicroSol 690XT provides exceptional surface finish and tool life on the difficult-to-machine aerospace aluminium alloys, Inconel, titanium, stainless and high tensile-strength steels. With an ultra-low foam profile, this next generation microemulsion tackles high-pressure, high-volume applications. It's an excellent alternative to the increased consumption experienced with high-mineral soluble oils, tooling underperformance and machine compatibility issues of a synthetic.

For peak performance, make it MicroSol 690XT.

Case Study

OPERATION:

Cutting Inconel, tapping aluminium

APPLICATION:

Hy-Speed Machining in Oregon produces parts for the aerospace industry. After using a full synthetic, they switched to MicroSol 690XT with astonishing results.

Their cutting time for Inconel went from 12 minutes per piece to less than $4^{1}/2$, and the \$450 drill lasts SIX times longer!

Formerly when tapping parts, they would line them up, start the taps, put in a machine override to add tapping oil, then resume. Now, with MicroSol 690XT, they just start it up, walk away, and "come back to beautiful parts." Having cut coolant and tool costs dramatically and increased production, Hy-Speed Machining is sold on MicroSol 690XT.



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Also from the MicroSol family is the highly lubricious TRIM° MicroSol° 585XT semisynthetic, microemulsion coolant. With characteristics similar to the MicroSol 690XT, it provides high performance without chlorinated EP additives.

MicroSol 585XT is exceptional for machining titanium and aluminium alloys, highly-engineered thermoplastics and composites. The extremely hard-water tolerant, fast-wetting coolant markedly extends sump life and provides superior corrosion protection along with substantial savings on time and material.

For exceptional lubricity and surface finish, use MicroSol 585XT.

Case Study

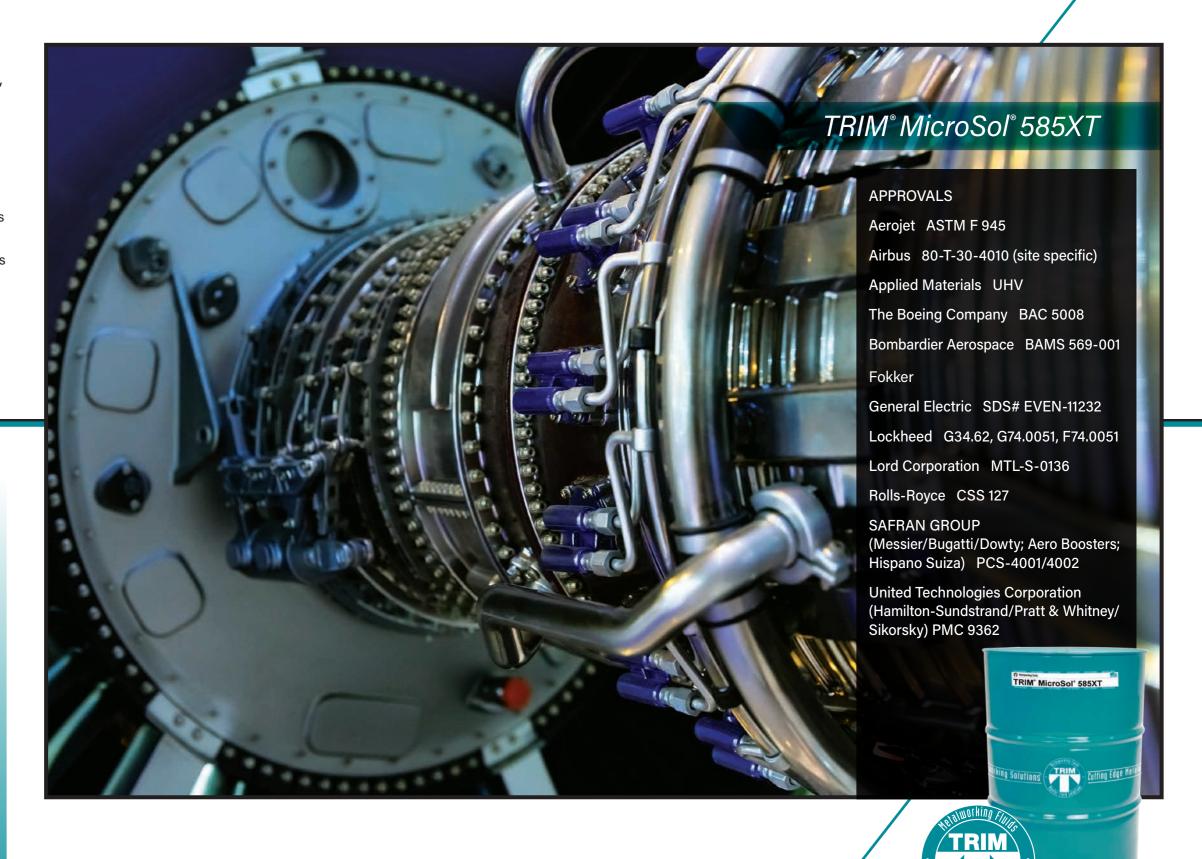
OPERATION:

Milling and turning aluminium, titanium and aerospace alloys

APPLICATION:

A USA-based manufacturer of aerospace turbine blades was experiencing problems with other coolants: from foul odour and high carryoff, to damaged seals and residue, as well as smoking and excess makeup. The customer ran tests on MicroSol 585XT and found that smoking and misting were significantly reduced, there were no bad odours or damage to seals and usage was measurably reduced.

With the switch to MicroSol 585XT, they have experienced much longer sump life and problems with smoking, residue, foul odour, seal damage and excess carry-off are a thing of the past. The customer has seen a significant boost to their bottom line with MicroSol 585XT!



TRIM® E850



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TRIM® E850 is a versatile, long-lasting, low-maintenance premium emulsion. A proprietary blend of "green" vegetable-based fluids and traditional lubricity additives, E850 is a revolutionary, high-performance coolant of choice for repeatable precision parts.

Setting a new standard for mechanical lubricity, E850 provides exceptional surface finish on typically difficult-to-machine aerospace materials – aluminium and titanium alloys, exotics and stainless and high tensile-strength steels.

User-friendly E850 is free of noxious additives, yet offers high-production parts quality, low carryoff, longer sump life and tangible cost savings.

Be "in the green" with performance-proven "green" E850.

Case Study

OPERATION:

Centerless grinding of aluminium, Inconel, titanium and 17-4 stainless steel

APPLICATION:

A USA-based machine company specialising in throughfeed and end-feed centerless grinding had been having problems with other coolants. They found E850 has been the only coolant to produce the lubricity and surface finish to meet their stringent specifications.

Also located in the USA, a major producer of precision commercial and military aerospace components has seen impressive results using E850 for their classified titanium forging machining of under-carriage steering equipment for military aircraft such as the F-16, F-22, F-35, AH-64, B1, C130, CH47, UH 60, S70i, and T38.

After a successful trial, another general machining company in the USA made the switch to E850 because they needed a chlorine free product and chose E850 for its superior lubricity on stainless steel and aluminium.



Contact us

Let us create a detailed, fact-based, customised analysis to prove just how much we can save your operation in time, material, and cost, while improving quality, with the premium coolant just right for your production.

For prices or additional information, contact your Master Fluid Solutions representative.











