

WIRE DRAWING FLUIDS



Fluid Solutions, Inc. offers an industry-approved range of Wire Drawing Fluids both for Copper and Aluminum. Moreover, our company provides after-sales services that will enable you to maximize the usage of our fluids.

	Technology	Concentration	Viscosity at 40 °C	Wire Diameter	Operations
Condat Vicafil TCU 515	Emulsion	Rod Wire - 10-12% Intermediate - 6-8% Extra Fine Wire - 2-4%	N/A	15 mm to 0.01 mm	Copper Rod Breakdown to Fine Wire
Condat Vicafil TCU 215	Synthetic	Annealing - 1-2%	N/A	N/A	Annealing of Copper Wires
Condat Vicafil TCU 531	Straight Oil	N/A	140 cSt	9.5 mm to 1.0 mm	Aluminum rod breakdown to intermediate size drawing with good operating life
Condat Vicafil TFA 1167	Emulsion	25%	N/A	9.5 mm to 1.0 mm	Aluminum rod breakdown to intermediate size drawing with extensiv operating life
Condat Vicafil TFA 1430	Microemulsion	2-4%	N/A	0.01-0.005 mm	Copper Fine and Extra Fine Wire

All available in 180 kg drums or 20 L pails

The featured fluids form our product portfolio for wire-drawing fluids, but feel free to inquire with our representatives for custom formulations.

FLUID MAINTENANCE CHEMICALS

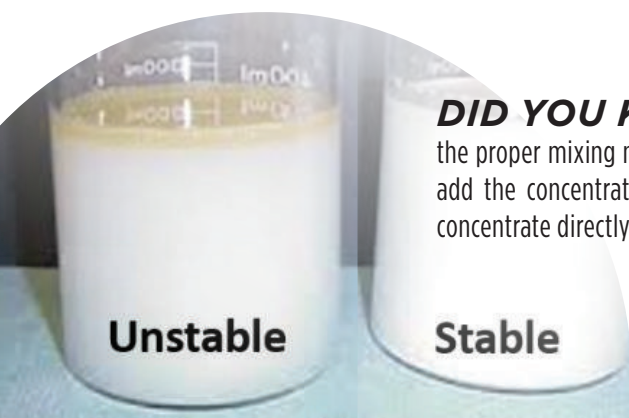
These service additives may be added at tank side in order to prolong sump life or to improve the performance of old-age sumps.

Soluble Oils - Maintenance Additives

	Purpose	Dosage
Condaclean M2	System Cleaner, flushes an old sump, use with water before filling a new charge, runs for 4 hours	5-10%
Additif Disp HD	Maintains or revives pH up to 8.9 to 9.0 levels and limits microorganisms	0.5-0.2%
Curex N°11	Biocide, kills bacteria and fungi	0.1-0.2%
Curex N°7	Biocide, kills bacteria and fungi	0.02-0.04%
Antimousse 800	Defoamer, mix with emulsion before dosing to sump	0.01-0.02%

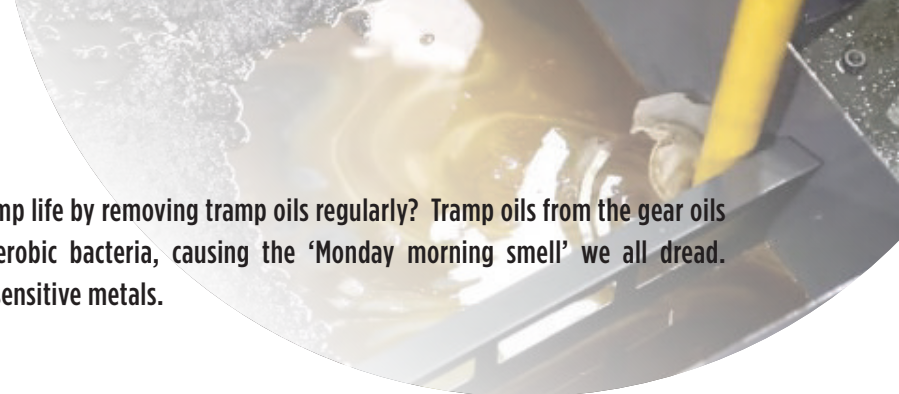
Neat Oils Maintenance Additives

	Purpose	Dosage
Antifoam 149	Defoamer for neat oil bath	0.05-0.10%



DID YOU KNOW that you can maximize the use of your fluids, and increase sump life by following the proper mixing method for coolants? Set aside the water for usage in your mixture in a clean container, and add the concentrate ON TOP, then mix thoroughly before pouring the mixture into the sump. NEVER place concentrate directly to the sump, or to pour water into the concentrate. The fluid mixture will not be stable

DID YOU KNOW that you can double your sump life by removing tramp oils regularly? Tramp oils from the gear oils and hydraulic systems promote the rapid growth of anaerobic bacteria, causing the 'Monday morning smell' we all dread. Furthermore, tramp oils can cause smoking and staining on sensitive metals.



HYDRAULIC OILS

Our LUBRITECH AW series is an HLP mineral-based lubricant containing low-zinc Anti-Wear (AW) additives, meeting quality levels of Denison, Vickers and Cincinnati Machines. It is highly recommended for use in high-pressure hydraulic systems, and may also be used for lightly loaded gearboxes and bearings not requiring Extreme Pressure (EP) additives.

	ISO VG 22	ISO VG 32	ISO VG 46	ISO VG 68	ISO VG 100
Viscosity at 40°C (cSt)	21.27	31.26	47.01	71.93	106.9
Viscosity Index	103	103	104	100	96
Flash Point (°C)	220	220	230	240	244
Color/Appearance	Clear	Clear	Clear	Clear	Clear

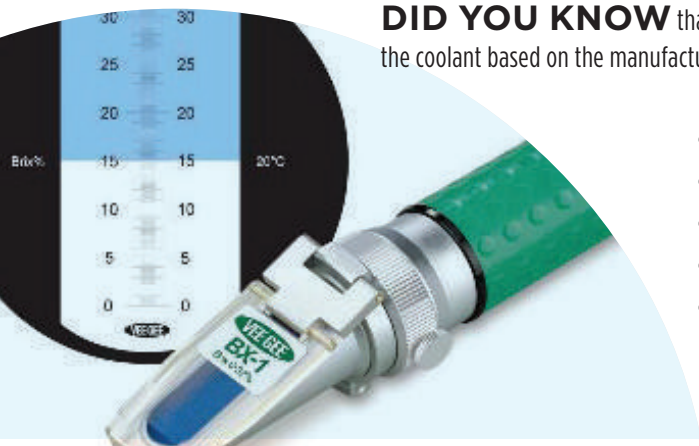
Other viscosities are available upon request
All available in 200 liter drums and 20 liter pails

GEAR OILS

The LUBRITECH EP range is a CLP mineral based lubricant containing Extreme Pressure (EP) additives required for modern, heavy-loaded gearboxes. Passing FZG stage 12, Lubritech EP provides protection in case of boundary lubricating conditions, ensuring the minimization of friction and gear damage. For worm-gears, especially those utilizing bronze wheels, our compounded LUBRITECH WG series is the optimal choice as it does not attack yellow metals.

	ISO VG 150	ISO VG 220	ISO VG 320	ISO VG 460	ISO VG 680	WG 390	WG 700
Viscosity at 40°C (cSt)	143.8	217.3	318.1	477.6	662.6	388	674.1
Viscosity Index	94	94	95	97	89	95	83
Flash Point (°C)	236	238	232	236	234	242	286

Other viscosities are available upon request
All available in 200 liter drums and 20 liter pails



DID YOU KNOW that water-miscible wire drawing fluids are CONCENTRATION-SENSITIVE? One should always use the coolant based on the manufacturer's recommendation. Too low concentration can negatively impact the following,

- Tool life
- Wire Surface Finish
- Bio-stability – bacteria may thrive and cause odor and additive depletion
- Rust and Corrosion Protection
- Sump Life

fluid
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Also Available:

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Open Gear Greases
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Fire Resistant Hydraulic Fluids

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OIL SKIMMERS

