



ALUMINUM ELECTRICAL WIRE LUBRICANTS SELECTION GUIDE



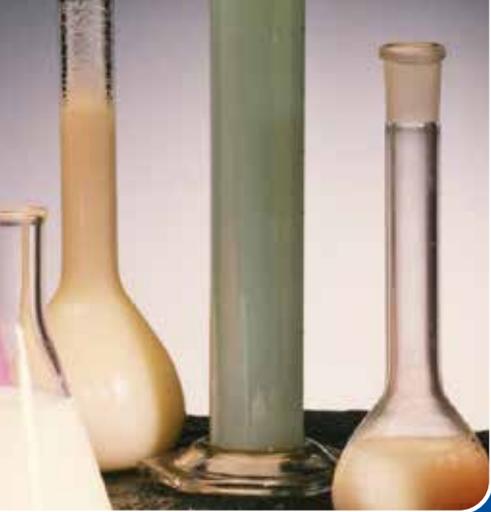
CONDAT offers a range of lubricant specifically designed for aluminum and its alloys, based on semi or fully synthetic oils, completed with a water soluble synthetic oil based lubricant. Synthetic products will ensure no residue and stain on the aluminum surface after annealing and will then leave a very clean surface while

semi synthetic products will provide high lubricating properties as well as long life in service due to high level of additivation and strong detergent properties. A large spectrum of viscosity enables us to cover all customers requirements from large to small diameters.

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| DRAWING | Neat Oils | VICAFIL TFA 1167 | Rod breakdown to intermediate size drawing. Good operating life. |
| | | VICAFIL TFA 1460 | Rod breakdown to intermediate size drawing. Extended operating life. |
| | | VICAFIL TFA 1218 | Drawing of fine wires. Excellent additive to lower the viscosity of rod breakdown oil. |
| | Soluble | VICAFIL TAL 1415 | Semi-synthetic water based lubricant for rod breakdown and fine wire drawing with clean finish and high detergency. |
| Greases | VICAFIL TFG 4298 | Big diameter. Single pass. Heavy reduction. | |
| COMPACTING | Solvent | VICAFIL TFA 1432 | Compacting lubricant. Very few residues. Low emission and flammability. |

Please refer to our complementary additives range to help you manage your lubricant lifetime and performance.





COPPER ELECTRICAL WIRE SELECTION GUIDE



CONDAT has developed an extensive range of lubricants to fit all the processes of companies manufacturing electric wire. Our strong technical expertise enables us to offer high performance lubricants in compliance with the latest environmental legislation.

Water-based lubricants are the most commonly used fluids for copper & copper alloys cold drawing applications. They are defined

as those where water is the main phase. Basically, water-based fluids combine the cooling properties of water with lubricating properties of oil and/or various technical additives. Various families are used and these can be classified according to their appearance in aqueous media as follows: soap-fat compounds, water-soluble oils, semi-synthetic and synthetic solutions.

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|--------------------------------|------------------|-----------------------|-------------------|---|
| BARE COPPER WIRES | Emulsions | Semi Synthetic | VICAFIL TCU 215 N | Rod break and redrawing including multiwires machine. Good detergency |
| | | | VICAFIL TCU 515 | Rod break and redrawing including multiwires machine. Clean finish. Good detergency |
| | | | VICAFIL TCU 415 | Versatile multipurpose product for bare or coated copper wire. Clean finish. Excellent detergency |
| COATED COPPER WIRES | Emulsions | Semi Synthetic | VICAFIL SL 2868 | Nickel coated fine wires drawing. High performance |
| ANNEALING | Solutions | Synthetic | VICAFIL TCU 531 | Clear solution for annealing / quenching with added rust protection |

Please refer to our complementary additives range to help you manage your lubricant lifetime and performance.



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