



Wiol 2000 LFG

Copper Wire Drawing Lubricant for Intermediate, Fine and Super Fine Applications

Product Description

Wiol 2000 LFG is a fully synthetic water soluble lubricant which produces a clear blue solution at all dilutions. Wiol 2000 LFG is entirely water soluble utilising new technology to provide levels of cleanliness unachievable with oil containing products. Lubrication is provided by high molecular weight polymers supplemented by synthetic soaps. A synergistic combination of organic and inorganic corrosion inhibitors provide complete protection for ferrous and non-ferrous metal alike. Wiol 2000 LFG is virtually unaffected by water hardness and will not generate copper sludge. Wire drawn with Wiol 2000 LFG solution is exceptionally clean being washed almost completely dust free by the solution. The resulting copper dust is readily removed by filtration, centrifuging or gravity separation.

Application

Wiol 2000 LFG is recommended for drawing of intermediate and small wire sizes of plain and tinned wire on both single and multi-line machines. Wiol 2000 LFG is especially recommended for drawing or rolling wire for enamelling. Further specialised applications include Nickel plated and Silver plated copper wires. Strip and section cold rolling is also possible with Wiol 2000 LFG.

Features

- Oil free solution with synthetic lubricant blend
- Provides lubrication only when needed

Benefits

- Exceptional cleanliness with complete stability of solution
- Will not generate copper sludge and generate oil free copper dust which is readily removed from the solutions
- Tolerant of almost all water qualities
- Provides lubrication by "Inverse Solubility" only in dies and on capstans
- Ensuring maximum cleanliness and thus avoiding the traditional conflict between lubrication and detergency

Recommended Concentrations

Intermediate	4-8%	(3.5mm entry)
Fine/Super fine	2-4%	(0.4mm entry)
In line continuous annealers	2%	

Note: In some circumstances it may be beneficial to exceed the recommendations shown above.

Care and Maintenance

1. Wiol 2000 LFG is compatible with certain emulsion type lubricants, however thorough cleaning is recommend the use of Brytoklean WD to clean and degrease machinery and pipework to ensure the maximum benefits of Wiol 2000 LFG are obtained.
2. To control bacterial and other infections in service and to avoid incompatibility problems, we recommend only Germ-Allcard Borodin additive and in particular Borodin B.
3. Wiol 2000 LFG will perform well in almost all waters but for maximum cleanliness we recommend the use of soft or deionised water to replace evaporation losses.
4. Containers of concentrate should be stored away from extremes of temperature. Above 60° Wiol 2000 LFG may suffer irreversible damage. Protect from frost and prevent the ingress of water.

Product Characteristics

Appearance	Clear blue fluid
Specific Gravity @ 15°C	1.1020
Appearance Solution	Clear blue solution
Solution pH @ 5%	9.0
Conductivity @ 5%	1374 uMHO/CM
Refractometer factor	Reading X 1.7 = % WIROL 2000 LFG

Availability

Contact Sales Desk for product availability.

Health and Safety

Normally safe in use. Before using this product reference should be made to the relevant Material Safety Data Sheet.

Further Information

For further information and technical help on selecting and using this or any other products, please contact your Representative, or telephone the Technical Help Line on +44 (0) 113 2365 223 (normal working hours) or by fax on +44 (0) 870 238 4673 (outside working hours).

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Germ-Allcard Specialised Lubricants

Knowsthorpe Gate, Leeds LS9 0NP

Telephone ++0044 (0)113 2365 227

Fax ++0044 (0)113 235 0705

A division of Kuwait Petroleum International Lubricants (UK) Ltd

