

## Germ-Allcard Wirol 2200

Exceptional performance wire drawing lubricant for intermediate, fine and superfine wire

### Description

Wirol 2200 is a full synthetic lubricant recommended for the drawing of intermediate, fine and super fine wire of both copper and aluminium. It is also recommended for the drawing of plated wires such as tin, silver and nickel plate as well as precious metals. Wirol 2200 has exceptional lubrication properties and provides a long consistent solution life.

### Applications

Wirol 2200 is recommended for the drawing of intermediate, fine and super fine wire sizes of plain and tinned copper in all applications, both single and multiwire. It is especially recommended for the tandem in-line drawing or rolling for enamelling of copper and aluminium. Further specialised applications include the drawing of Nickel plated and Silver plated copper wires as well as the drawing of precious metals. It is suitable for operating temperatures from ambient to 50°C. Wirol 2200 has proved to be the first choice lubricant for drawing applications of final diameters to 10 microns.

### User instructions

1. Use a system cleaner during the disposal of previous emulsions, to ensure maximum results. To obtain its unique biostability it is essential to remove copper soap deposits before applying Wirol 2200.
2. Wirol 2200 is suitable for all water types. However, for maximum performance we recommend the use of soft or de-ionised water.
3. In order to preserve the integrity of this product, drums should be stored inside a building protected from frost and direct sunlight.
4. Avoid exposure to extreme temperatures and the ingress of moisture. Wirol 2200 must have a temperature above 5°C before emulsion make-up.
5. The correct mixing procedure is to add Wirol 2200 concentrate to water and stir. For this operation we recommend positive displacement (Dosatron type) mixing units.

	Entry diameter (mm)	Recommended concentration
Intermediate	3.5	4-8 %
Fine & super fine	0.4	2-4 %

Note: In some circumstances, it is beneficial to exceed the recommendations shown above.

### Environment, Health and Safety

Please consult the Material Safety Data Sheet for instructions regarding safe handling and environmental issues. Germ-Allcard Wirol 2200 is boron and formaldehyde free. It is compliant with the TRGS 611 specification. This ensures environmental safety & operator health.

### Properties

	Method	Unit	Typical
Appearance (Neat)	Visual	-	clear
Appearance (Emulsion)	Visual	-	clear
Density, 20 °C	D 4052	g/ml	1.07
pH 5% in DI water	E 70	-	8.8
Refractometer Factor	-	-	2.2

The figures above are not a specification. They are typical figures obtained within production tolerances.

### Remarks

Please contact your Q8Oils representative for further advice and support on your specific application and equipment.

## Sustainability

The product Carbon Footprint (PCF), cradle-to-gate (Q8Oils state of the art facility in Belgium), of Germ-Allcard Wirol 2200 is **0.92** kg CO<sub>2</sub>eq / kg.

Please contact Q8Oils to learn more about the positive environmental impact, the handprint, of this product.

To ensure accuracy and reliability, the PCF calculation tool has been verified by an independent third party. The verification report is available in the disclaimer.

For more info check [here](#)



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