

## Germ-Allcard Priamus X13

Exceptional performance multi-purpose copper wire drawing lubricant

### Description

Priamus X13 is a multi-purpose lubricant for copper wire drawing in all sizes from rod to fine on slip and non-slip machines. Utilising the latest additive technology, it provides exceptional lubrication performance and superior drawing machine productivity. The emulsion has a high detergency to keep machines and drawing dies clean. Priamus X13 is suitable for make up in both soft and medium hardness waters. Oxidation test results confirm a clean long life.

### Applications

Priamus X13 is suitable for drawing all wire sizes from rod to fine wire on all types of drawing machines. It is also suitable for both multi-wire and in-line drawing machines. Priamus X13 emulsions may also be used in continuous annealers @ 1-2% concentration.

### 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 Priamus X13.
2. This fluid is biostable when used at the recommended concentration levels as mentioned in the table below.
3. Priamus X13 is suitable for all water types. However, for maximum performance we recommend the use of soft or de-ionised water.
4. In order to preserve the integrity of this product, drums should be stored inside a building protected from frost and direct sunlight.
5. Avoid exposure to extreme temperatures and the ingress of moisture. Priamus X13 must have a temperature above 5°C before emulsion make-up.
6. The correct mixing procedure is to add Priamus X13 concentrate to water and stir. For this operation we recommend positive displacement (Dosatron type) mixing units.

|                 | Entry diameter (mm) | Recommended concentration |
|-----------------|---------------------|---------------------------|
| Rod             | 6.0 – 14.0          | 10-12 %                   |
| Intermediate    | 3.0 – 6.0           | 6-8 %                     |
| Medium          | 2.0 – 3.0           | 4-6 %                     |
| Fine/Super fine | 0.4                 | 1-3 %                     |

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 Priamus X13 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  | -    | dark brown oil   |
| Appearance (Emulsion)                    | Visual  | -    | semi translucent |
| Density, 20 °C                           | D 4052  | g/ml | 0.94             |
| pH@5% in 400 ppm CaCO <sub>3</sub> water | E 70    | -    | 9.1              |
| Refractometer Factor                     | -       | -    | 1.0              |
| Acid Split Factor                        | Babcock | -    | 1.05             |

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.