

## Germ-Allcard Priamus X255

High performance multi-purpose wire drawing lubricant for copper and aluminium

### Description

Priamus X255 is a highly detergent emulsifiable fluid designed for drawing all wire sizes, from rod to fine wire. The lubricity package extends the die life, minimizes wire breaks and increases productivity, while enhancing the surface finish. The careful balance of complex anionic emulsifiers enable a high detergency, ensuring the cleanliness required for fine wire sizes especially on multi-wire machines. With increased concentration, Priamus X255 provides the perfect lubricity needed for larger wire sizes up to rod sizes without compromising cleanliness.

### Applications

**Copper:** Priamus X255 is suitable for drawing all wire sizes from rod to fine wire, on all types of wire drawing machines. It is especially suitable for both multi-wire and in-line drawing machines. **Aluminium:** Priamus X255 is successfully used for drawing aluminium alloys on slip machines with entry size of 9.5mm. Priamus X255 emulsions are fit for use in continuous annealers with a 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 X255.
2. Priamus X255 will perform well in waters of up to 200 ppm Ca (as CaCO<sub>3</sub>). 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. Priamus X255 must have a temperature above 5°C before emulsion make-up.
5. The correct mixing procedure is to add Priamus X255 concentrate to water and stir. For this operation we recommend positive displacement (Dosatron type) mixing units.

Copper	Entry diameter (mm)	Recommended concentration
Rod	6.0 – 14.0	10-12 %
Intermediate	4.5 – 6.0	6-8 %
Medium	2.0 – 3.0	4-6 %
Fine/Super fine	0.4	2-4 %

Aluminium	Entry diameter (mm)	Recommended concentration
Intermediate	3.0	6-8 %

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 X255 is biocide, 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	0.96
pH 5% in DI water	E 70	-	8.6
Refractometer Factor	-	-	1.0
Acid Split Factor	Babcock	-	1.15

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.*