

Germ-Allcard Priamus X10

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

Description

Priamus X10 is a biostable emulsifiable fluid designed for drawing all wire sizes, from rod to fine wire. The biostable properties will manifest themselves even more in copper rich environments. The unique non-soap emulsifiers and lubricity additives provide high emulsion stability, extreme cleanliness and the flexibility to increase concentrations required for different applications. The low reactivity of Priamus X10 results in excellent cleanliness and an exceptionally long product life, even at elevated operating temperatures.

Applications

Copper: Priamus X10 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. Aluminium: Priamus X10 is suitable for aluminium and aluminium alloy rod and wire drawing of all sizes. Priamus X10 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 X10.
2. This fluid is biostable when used at the recommended concentration levels as mentioned in the table below.
3. Priamus X10 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. 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 X10.
5. This fluid is biostable when used at the recommended concentration levels as mentioned in the table below.
6. Priamus X10 is suitable for all water types. However, for maximum performance we recommend the use of soft or de-ionised water.
7. In order to preserve the integrity of this product, drums should be stored inside a building protected from frost and direct sunlight.
8. Avoid exposure to extreme temperatures and the ingress of moisture. Priamus X10 must have a temperature above 5°C before emulsion make-up.
9. The correct mixing procedure is to add Priamus X10 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 %
Medium	2.0 – 3.0	4-6 %
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 Priamus X10 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	-	milky
Density, 20 °C	D 4052	g/ml	0.93
pH@5% in 400 ppm CaCO ₃ water	E 70	-	9.0
Refractometer Factor	-	-	0.8
Acid Split Factor	Babcock	-	1.06

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.

