PRODUCT DATA SHEET

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 0de-ionised water.*
4. *In order to preserve the integrity of this product, drums should be stored inside a building 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 CaCO3 (23.4 gpg) 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.

Sustainability

*The product Carbon Footprint (PCF), cradle-to-gate (Q8Oils state of the art facility in Belgium), of Germ-Allcard Priamus X10 is **1.87** kg CO_2eq / 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

we take care

PRODUCT CARBON FOOTPRINT
METHOD VALIDATED BY:

PCF CALCULATION IN LINE WITH:
ISO 14067 | ATIEL-UEIL PCF

VINÇOTTE