

# Germ-Allcard PRIAMUS X10

Multipurpose Lubricant for Drawing Wire, Copper and Aluminium

## GERM-ALLCARD Range

GERM-ALLCARD is a range of high performance lubricants developed for the drawing and rolling applications of non-ferrous wire, rod, bar, tube, strip and profile, please refer to each product data sheet

## 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 for all sizes, please consult your representative for further information.

Priamus X10 emulsions may also be used in continuous annealers @ 1-2% concentration.

## Product Description

Priamus X10 is an emulsifiable lubricant which produces a highly stable emulsion, with unique biostable properties in copper rich environments. The stability is achieved by the careful balance of non soap emulsifiers and lubricity additives ensuring the cleanliness required for fine wire sizes especially on multi-wire machines.

The emulsifier and lubricity system enables Priamus X10 to provide with increasing concentration, the lubrication required for larger wire sizes up to rod sizes without compromise of cleanliness.

The low reactivity of Priamus X10 results in excellent cleanliness and exceptionally long life even at elevated operating temperatures.

## Features

- Combination of synthetic & natural boundary lubricant
- Low reactivity with copper
- Unique biostability
- Low coefficient of friction (C.O.F.)
- Low foaming product
- Complies with TRGS 611
- Boron Free

## Benefits

- Controlled lubrication at all wire sizes
- Reduced copper sludge generation
- Exceptional cleanliness
- Biocides not normally required
- Minimal maintenance
- Avoids bacterial/fungal growth
- Minimises wire tension breaks
- Reduces capstan and die wear
- Suitable for all systems

## Recommended Concentration

Rod	10-12%	(6.0-14.0 mm entry)
Medium	4-6%	(2.0-3.0 mm entry)
Fine/Super Fine	2-4%	(0.4 mm entry)

Note: In some circumstances it may be beneficial to exceed the recommendations shown above.

## Care and Maintenance

- 1 To ensure maximum benefits of Priamus X10 are obtained, we would recommend the use of a system cleaner during disposal of previous emulsion. To obtain its unique biostability it is essential to remove copper soap deposits prior to the introduction of Priamus X10
- 2 Priamus X10 should be biostable under condition of use at the recommended concentration levels.
- 3 Priamus X10 will perform in all types of waters but for maximum performance we recommend the use of soft or de-ionised water (not salt softened) for top up.
- 4 Containers of Priamus X10 concentrate should be stored away from extremes of temperature and the ingress of moisture avoided. Priamus X10 should be above 5°C before emulsion make-up.

## Typical Inspection Data

Appearance	:	Dark brown oil
Density @ 20c	:	0.925
Emulsion Appearance	:	Milky (blue milky in use)
Emulsion pH @ 10%	:	9.8
Conductivity @ 5%	:	410 umho/cm
Acid split factor (Babcock Test)	:	Recovery x 1.06 = % true concentration
Refractometer Factor	:	Reading x 0.96 = % true concentration

## Health and Safety

Normally safe in use. Before using this product reference should be made to the relevant Reach Material Safety Data Sheet.

## Further Information

For further information and technical help on selecting and using this or any other products, please contact your local Representative, you can also contact us by E mail on wire@Q8Oils.com mar14v3

