



Priamus X255 - Multipurpose Lubricant for Drawing Copper and Aluminium Wire

Product Description

Priamus X255 is an emulsifiable lubricant which produces a highly detergent milky emulsion. The detergency is achieved by the carefully balance of complex anionic emulsifiers ensuring the cleanliness required for fine wire sizes especially on multi-wire machines. This complex emulsifier system enables Priamus X255 to provide, with increasing concentration, the lubricity needed for larger wire sizes up to rod sizes without compromise of cleanliness. Controlled lubrication is provided by a synergistic combination of synthetic and naturally occurring polar additives, which ensure consistent lubrication at all wire sizes. This product does not contain any biocide or fungicide due to the very wide range of dilution that this product can be used. Where there is history of bacteria or fungal infection the use of a multi functional biocide/ fungicide such as Q8 Borodin B is strongly recommended. Control doses should be maintained at 750 - 1000ppm. Kill dose of 2000 ppm will be necessary should infections occur. Regular monitoring of biocide and or bacteria is always advised.

Application

COPPER: Priamus X255 is suitable for drawing all wire sizes from rod to fine wire, on all types of wire drawing machines and is especially suited for multi-wire machines and in-line drawing. Priamus X255 emulsions may also be used in continuous annealers.

ALUMINIUM: Priamus X255 is successfully used for drawing 5000 series alloys on slip machines with maximum entry size of 3 mm.

Features

- Unique combination of synthetic and natural boundary lubricants
- Balanced emulsifier complex
- Biodegradable, passed the OECD 301-B test

Benefits

- Controlled lubrication at all wire sizes
- Reduced copper sludge generation
- Exceptional cleanliness especially on multi- wire machines
- Minimal oil separation extending emulsion life, and reducing down time
- Suited to all types of filtration ensuring lubricity is available when require

Recommended Concentrations

COPPER:

Rod 10-12%	Medium 4-6% (2 mm entry)
Intermediate 6-8% (4.5 mm entry)	Fine/Super fine 2-4% (0.4 mm entry)

ALUMINIUM: Intermediate 6-8% (3.0 mm entry)

For aluminium drawing the emulsion pH should be maintained between 8.0 and 8.5.

NOTE: In some circumstances for both copper and aluminium it may be beneficial to exceed the recommendations shown.

Care and Maintenance

- 1 To ensure maximum benefits of Priamus X255 are obtained, we recommend the use of Brytoklean WD system cleaner during disposal of previous emulsion.
- 2 To control bacterial and other infections in service and to avoid problems of incompatibility we recommend only the use of Borodin additives and in particular Borodin B.
- 3 Priamus X255 will perform well in waters of up to 200 ppm Co (as Ca CO₃) but for maximum performance we recommend the use of soft or deionised (not salt softened) water for top up.
- 4 Containers of Priamus X255 concentrate should be stored away from extremes of temperature and the ingress of moisture avoided. Priamus X255 should be above 5°C before emulsion make-up.

Priamus X255 Characteristics

Appearance	:	Dark Brown Oil Emulsion
Specific Gravity @ 15°C	:	0.9612
Appearance	:	Milky
Emulsion: pH @ 5%	:	8.5
Conductivity @ 5%	:	1500 uMHO/CM
Acid Slit factor (Babcock Test)	:	Recovery x 1.15 = % PRIAMUS X255
Refractometer Factor	:	Reading x 1.04 = % PRIAMUS X255

Availability

Contact Sales Desk for product availability.

Health and Safety

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

Further Information

For further information and technical help on selecting and using this or any other products, please contact your Representative, or telephone the Technical Help Line on +44 (0) 113 2365 223 (normal working hours) or by fax on +44 (0) 870 238 4673 (outside working hours).

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