



TRICOOL

– International –

Proteus 650 is an emulsifier and corrosion inhibitor package for the manufacture of a range of high oil, semi-synthetic, water-mix metalworking fluids, offering advanced bio-stability and performance, giving long sump life and excellent

Proteus 650

surface finish.

Product Features

- Excellent emulsification
- Anionic & Non-ionic surfactant system
- Excellent corrosion inhibition
- Provides stable concentrates
- Inherently stable emulsion
- Cost-effective low treat rate & simplified fluid production
- Combines effectively with EP additives
- Free from nitrites, phenols, chlorine & PTBBA

Sales Specifications

Parameter	Specification
Appearance	Amber Fluid.
Specific Gravity at 20 degrees C	1.00-1.10
Boron Content % wt.	1.5
Stability @ oc	Stable, fluid
Stability @ 40c	Stable, fluid



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Blending Options:

Proteus 650

Basic Blend:	Proteus 650 Base Oil	@ 40% @ 60%
EP Blend:	Proteus 650 Base Oil Chloroparaffin	@ 40% @ 50% @ 10%
EP Blend: (Chlorine Free)	Proteus 650 Base Oil PGDO	@ 40% @ 50% @ 10%
AL Blend: Phosphate Ester }	Proteus 650 Base Oil PGDO P6AES P6C	@ 40% @ 50% @ 7% @ 2% @ 1%
HD Blend:	Proteus 650 Base Oil Chloroparaffin PGDO	@ 40% @ 45% @ 10% @ 50%

Note:

Antifoam @ 0.2% may be added to the above blends, if required.



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Typical Finished Basic Blend Data

Concentrate:	Appearance	Amber Fluid
	Stability @ 0c	Stable, fluid
	Stability @ 40c	Stable, fluid
Emulsion:	Appearance	Good, milky
	IP 287, break point %	2.0
	pH	9.0-9.2

Blending Advice

Temperature is optimum at 20c-30c

The base oil should be placed in a blending vessel

Proteus 650 should be added slowly, with constant stirring

The remaining additives (where applicable) should be added slowly with constant stirring

Finally add antifoam (if required) slowly, with constant stirring.

Storage Advice

Proteus 650 should be stored under cover out of direct sunlight and protected from extreme temperatures, ideally at 10c-30c. Avoid water being collected on the rim of drums. Proteus 650 has a shelf life of 12 months from the date of supply when stored under the recommended conditions



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