



TRICOOL

— International —

Proteus 50W Plus

An 'easy to use' Metalworking Fluid Package designed to produce a comprehensive range of high performance, water extendable coolants.

Product Description

A multi-functional emulsifier package offering 'ease of use' to produce a large range of quality water mix cutting fluids. Tricoool Proteus 50W Plus may be mixed with water and/or a full range of raw materials/additives enabling the formulator or end user to produce cost effective products suitable for a variety of metal working applications and operations. Tricoool Proteus 50W Plus enables an extended range of finished grades to be produced from one package.

Features & Benefits

- Multifunctional and easy to use.
- Outstanding lubricity characteristics.
- Stable high quality emulsions.
- Excellent anti-corrosion performance on both ferrous and non-ferrous materials.
- Low foaming tendency.
- Suitable for incorporation into some aluminium formulations.
- High degree of bacterial and fungal resistance.

Tricoool Proteus 50W Plus is suitable for the preparation of a full suite of products encompassing a wide spectrum of machining operations and metals, examples include: high tensile steels, cast iron, yellow metals, and some aluminium alloys.



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FORMULATION	pH 5%	Copper Corrosion	EMULSION STABILITY	IP287	Aluminium Corrosion
Formulation 1 - Biostable EP	9.4	1A	D.I. Translucent 200ppm Semi-Trans 500ppm Semi-Trans	2.0% BP	No Staining
Formulation 2- Biostable High EP	9.4	1A	D.I. Translucent 200ppm Semi-Trans 500ppm Semi-Trans	2.0% BP	No Staining
Formulation 3- Heavy Duty	9.3	1A	D.I. Milky 200ppm Milky 500ppm Milky	2.0% BP	No Staining
Formulation 4- High Oil Medium EP	9.3	1A	D.I. Milky 200ppm Milky 500ppm Milky	2.0% BP	No Staining
Formulation 5- Cast Iron	9.6		D.I. Translucent 200ppm Translucent 500ppm Translucent	2.0% BP	Slight Staining
Formulation 6- Cast Iron EP	9.5		D.I. Translucent 200ppm Translucent 500ppm Translucent	2.0% BP	Slight Staining



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COMPONENT	Blend 1	Blend 2	Blend 3	Blend 4	Blend 5	Blend 6	Blend 7	Blend 8
Proteus 50W Plus	50%	65%	40%	48%	25%	25%		
Base Oil		8%	21%	22.5%				
EP (CP/PGDO)	5%	8%	13.4%	7.5%		5%		
TMPTO/Meth. Est.	2%	2%	3.5%					
Trisyn 5000					3%	3%		
B6M	6.5%	6%	7.5%	7.5%	15%	15%		
MBM/BK	2.5%	2%	2.2%	2.2%	2%	2%		
IPBC 30	0.2%	0.2%	0.3%	0.3%	0.4%	0.4%		
DTO					3%	3.5%		
BDGE	1%	1%						
Protex ZAc	2.5%	2%	3.7%	3.7%	0.3%	0.3%		
BTA					0.6%	0.6%		
Water	30%	5.5%	8.1%	8.0%	50.4%	44.9%		

Note: Antifoam Optional @ 0.3%

Formulations are for guidance only. Tricoool Proteus 50W Plus is primarily for general purpose machining and not recommended for use with sensitive alloys.



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