

Last Updated: 01.03.2008

Product Code: IC 0667

RESCOOL PREMIUM

RESCOOL PREMIUM is a bio-stable, semi-synthetic soluble cutting fluid concentrate.

FEATURES – BENEFITS

- Compatible with most water qualities.
- Highly resistant to bacterial and fungal degradation.
- Offers good corrosion inhibition to ferrous metals.
- Good resistance to contact corrosion thus allowing work pieces to be stacked without staining occurring.
- Low staining potential for many non-ferrous metals, including copper and its alloys and aluminium and its alloys
- Nitrite and phenol free.
- Extremely low foaming tendency.
- Creates minimal sticky residues that can easily be washed away with water.

APPLICATIONS

(Minimum treat rate: 3% in water)

| | Turning | Drilling Milling | Sawing | Grinding | Honing | Lapping | Threading | Deep Hole Drilling | Broaching |
|--------------------------|---------|---------------------|--------|----------|--------|---------|-----------|-----------------------|-----------|
| Steel | π | π | π | π | | | π | | |
| Stainless Steel | π | π | π | π | | | π | | |
| High Alloy Steel | π | π | π | π | | | π | | |
| Titanium | | | | | | | | | |
| Carbide | | | | | | | | | |
| Cast Iron | π | π | π | π | | | π | | |
| Copper Alloys | π | π | π | π | | | π | | |
| Aluminium Alloys < 7% Si | π | π | π | π | | | π | | |
| Aluminium Alloys > 7% Si | | | | | | | | | |
| Plastic | π | π | π | π | | | π | | |

Water hardness should be checked to determine running concentrations.
Consult your RES Lubricants Sales Engineer.

TYPICAL PROPERTIES

| | |
|-----------------------|-----------------|
| Appearance | Green Liquid |
| pH (4% emulsion) | 9.0-9.4 |
| IP 287 Breakpoint | 80:1 |
| IP 125 Corrosion Test | 130:1 (no rust) |

FLUID MAINTENANCE

Refractive Index: - 1.32 = % / °Brix

| <u>Refractometry data for REScool Premium</u> | |
|--|------------------------------------|
| <u>Refractometer reading</u> | <u>Actual Concentration</u> |
| 0 | 0 |
| 1 | 1.32 |
| 2 | 2.67 |
| 3 | 4.07 |
| 4 | 5.39 |
| 5 | 6.86 |
| 6 | 8.23 |
| 7 | 9.62 |
| 8 | 10.99 |
| 9 | 12.42 |
| 10 | 13.85 |
| 11 | 15.17 |

STORAGE, SAFETY AND DISPOSAL

RES Lubricants can supply this quality product in 205 lt drums, in 25 lt containers and in 1,000 lt IBC's. Other packages can be made available by RES Lubricants upon request.

RESCOOL PREMIUM should be stored in dry conditions and protected from extreme temperatures: 4-35ÅC is the recommended storage temperature.

RESCOOL PREMIUM is unlikely to present any significant health or safety hazard when used as recommended by RES Lubricants. Good standards of personal and industrial hygiene are to be maintained by the user (see Material Safety Data Sheets). In order to protect the environment, the product used should be safely disposed by a licensed contractor. The packaging material should be handled by a recognised reconditioning firm.

Prior to using this product, consult the Material Safety Data Sheet for instructions regarding safe handling and environmental issues. The information contained herein is based on data available to us and is believed to be accurate.

HOWEVER, NO WARRANTY OF MERCHANTABILITY, FITNESS FOR ANY USE, OR ANY OTHER WARRANTY IS EXPRESSED OR TO BE IMPLIED, REGARDING THE ACCURACY OF THESE DATA. THE RESULTS TO BE OBTAINED FROM THE USE THEREOF, OR THE HAZARDS CONNECTED WITH THE USE OF THE PRODUCT.

RES Lubricants assumes no liability for any alleged ineffectiveness of the product or any injury or damage, direct or consequential, resulting from the use of this product unless such injury or damage is solely attributable to negligence on the part of RES Lubricants