

Last Updated: 01.03.2008
Product Code: IC 0680

RESCOOL 431 AF

RESCOOL 431 AF is a bio-stable, semi-synthetic soluble cutting fluid designed to have very low foaming properties in soft water areas.

FEATURES - BENEFITS

- Forms a translucent micro emulsion in most waters.
- Highly resistant to bacterial and fungal degradation, giving freedom from bad smells or slimy deposits.
- Offers good corrosion inhibition to ferrous metals.
- Good resistance to contact corrosion thus allowing work pieces to be stacked without staining occurring.
- Nitrite, phenol and formaldehyde free and based on highly refined mineral oil, thus giving optimum operator acceptability.
- Contains specially developed silicone free anti-foam additives to overcome foaming in high-pressure systems using soft or de-ionised water.
- 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	Forms a translucent liquid emulsion
pH (4% emulsion)	9.0-9.4
IP 287 Breakpoint	70:1
IP 125 Corrosion Test	130:1 (no rust)

FLUID MAINTENANCE

Refractive Index: - 1.30 = % / ° Brix

<u>Refractometry data for REScool 431 AF</u>	
<u>Refractometer reading</u>	<u>Actual Concentration</u>
0	0
1	1.30
2	2.60
3	3.90
4	5.20
5	6.50
6	7.80
7	9.10
8	10.40
9	11.70
10	13.00
11	14.30

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 431 AF should be stored in dry conditions and protected from extreme temperatures: 4-35°C is the recommended storage temperature.

RESCOOL 431 AF 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.

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