

Viren 9558 8892

Product Data

Precise Cleaning Detergent for Degreasing FRD-20

FRD-20 is a silicone precise cleaning detergent for degreasing for optical lens, metals, ceramics, plastics and so on. Volatile siloxane, the main component of FRD-20, is certified as a desirable detergent for SNAP (Significant New Alternative Policy) of ODS (Ozone Depleting Substance) replacement and exempt from VOC regulations by US EPA.

KEY FEATURES

- ◆ No concern for ozone destruction and global warming
- ◆ Cleaning and drying with one liquid
- ◆ Excellent drying performance
- ◆ Recycling is applicable by distillation

APPLICATIONS

- ◆ Degreasing of metal parts, electrical parts, automotive parts, optical parts, etc.
- ◆ Removal of silicone oil and grease

TYPICAL PROPERTY DATA

PROPERTIES		
Appearance		Transparent
Specific gravity (25°C)		0.815
Viscosity (25°C)	mPa·s	0.85
Boiling point	°C	153
Freezing point	°C	-82
Flash point	°C	35
Surface tension (25°C)	mN/m	16.0
Heat of vaporization	J/g	167
Evaporation density	g/dm ³	6.8
Explosion limit	Lower vol%	0.9
	Upper vol%	13.8
ODP		0
GWP		No apprehension

Typical property data values should not be used as specifications. Assistance and specifications are available by contacting GE Toshiba Silicones Commercial Office.

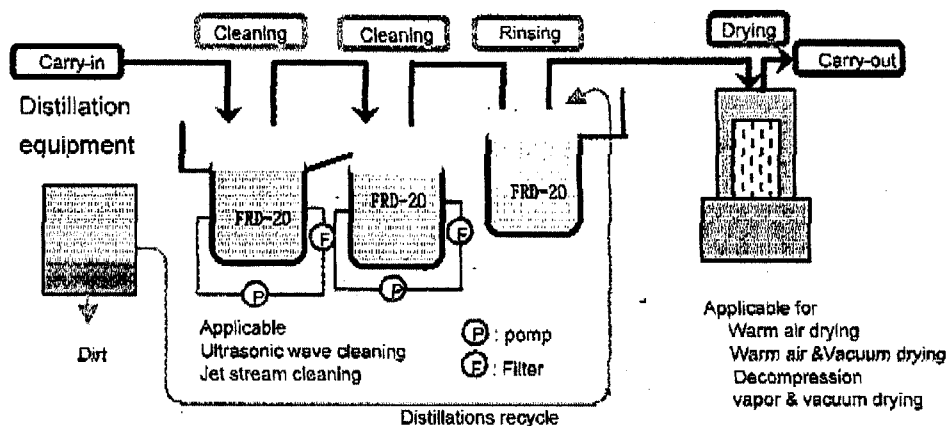
SURFACE TENSION

The surface tension value, a key factor for penetration property, is shown below, compared

with other detergent.

	FRD-20	IPA	n-decane	2-ethoxyethanol
Surface tension (25°C) mN/m	16.0	20.8	23.4	28.8

CLEANING PROCEDURE



Running costs will be reduced with the use of distillation equipment for recycling, which enables the reuse of the rinsing agent.

COMPATIBILITY

PLASTICS	WEIGHT CHANGE*	APPEARANCE CHANGE
Phenol resin	○	No change
Polycarbonate	○	No change
6-Nylon	○	No change
PPS	○	No change
Acryl resin	○	No change
Polyacetal	○	No change
Polyethylene	○	No change
Polystyrene	○	No change
Polypropylene	○	No change
ABS	○	No change
PBT	○	No change
PET	○	No change
Polyvinyl chloride	○	No change

*O: -1~+1%

Test specimen: 2x25x80mm

Testing method: Weight change and appearance are investigated, after a test piece is dipped in the test liquid held at 50°C for 2hours.

A preliminary test should always be conducted before use.

HANDLING AND SAFETY

- ◆ Wear eye protection and protective gloves when handling the product.
- ◆ Maintain adequate ventilation in the work place at the times.
- ◆ Avoid any source of ignition.

STORAGE

- ◆ Store in a dark, cool place out of direct sunlight.
- ◆ Keep out of the reach of children.

PACKAGING

15kg drum available

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