



TECLEAN

Hydrocarbon Cleaning Solvent

TECLEAN is a pure hydrocarbon cleaning solvent. Its low-aromatic design is gentle to people and helps to create a comfortable, low-odor work environment. TECLEAN provides outstanding cleaning properties for a wide range of applications

The end of 1995 marks the end of the supply of fluorocarbons and trichloroethane. In many fields, hydrocarbon solvents are being used as substitute cleansers because of their excellent performance and their gentleness to the environment.

Although hydrocarbon cleaning solvents are flammable, they can be used with confidence thanks to their low toxicity, excellent cleaning performance with oils and fats, good drying properties, and noncorrosion with metals. And since the waste fluid is flammable, they can be burned after use with very little effect on the environment.

Hydrocarbon cleaning solvents are refined from petroleum, so there will never be any supply problems. In addition, cleaning devices that use these solvents are compact and economical.

● SPECIAL FEATURES OF TECLEAN

1. TECLEAN is a highly refined hydrocarbon cleaning solvent. Its main components are naphthenic (cycloparaffinic) hydrocarbons, so it provides outstanding cleaning properties. The content of aromatic hydrocarbons is extremely low, so there is little odor or skin irritation, thus TECLEAN is gentle to people.
2. Since TECLEAN is a pure hydrocarbon containing absolutely no sulfur, nitrogen, chlorine, or other impurities, it will not corrode metal parts or other components and can be used with confidence for all types of cleaning applications.
3. TECLEAN has a high flash point and low volatility, so it can be used safely with little danger of combustion.
4. Despite its high flash point, TECLEAN has excellent drying properties. Its boiling point range has been made as narrow as possible so that this cleaning solvent will be very easy to work with.

● APPLICATIONS OF TECLEAN

1. Automobiles

Removal of oil, grease and cuttings from metal parts. Removal of protective coatings, etc.

2. Electrical and electronic components

Removal of oil, grease and cuttings from motors, television components. Removal of solder flux from printed circuit boards. Removal of rust preventive oils, etc.

3. Industrial Machinery

Removal of oil, grease and cuttings from metal parts. Removal of oil and grease from metal surfaces before painting or plating, etc.

4. Heat Treatment

Removal of oil, and grease from metal parts. Removal of quenching oil after heat treatment, etc.

5. Precision Machinery

Removal of oil, grease, and cuttings from camera and watch components, etc. Removal of pitch from lenses.

6. Metalworking

Oil removal and cleaning after aluminum rolling, etc.

7. Dry Cleaning

Cleaning of clothing.

8. Printing

Cleaning of blanket rolls in printing presses.

- Containers 200-liter drums and 20-liter cans

● **TYPICAL PROPERTIES OF TECLEAN**

Brand Name			TECLEAN N-16	TECLEAN N-20	TECLEAN N-22
Composition			Naphthene	Naphthene	Naphthene
Appearance			Colorless transparent	Colorless transparent	Colorless transparent
Density	(15°C)	g/cm ³	0.76	0.81	0.820
Flash point		°C	42	72	90
Distillation properties					
Initial			160	200	220
Final			180	220	240
Viscosity	(40°C)	mm ² /s	1.0	1.5	1.8
Surface tension	(25°C)	Dyn/cm	24	26	26
Aniline point		°C	68	69	74
Kauri-butanol value			30	29	27
Aromatics content		Vol%	1 >	1 >	1 >
Fire Services classification			Type 2 petroleum	Type 3 petroleum	Type 3 petroleum
Organic classification			Not covered	Not covered	Not covered

Note: The typical properties may be changed without notice. (August 2003)



**Handling
Precautions**

▼TECLEAN N16

! WARNING	<ul style="list-style-type: none"> ● <u>Static electricity can cause fires.</u> When handling this oil, use a ground <u>to remove static electricity.</u> ● This oil is a flammable fluid. The vapor can <u>cause fires and explosions.</u> <u>Keep away from flames.</u>
! CAUTION Handling Precautions	<ul style="list-style-type: none"> ● <u>Inflammation can occur if oil enters the eyes.</u> When handling this oil, wear <u>protective goggles</u> or take other measures to <u>prevent eye contact.</u> ● <u>Inflammation can occur if oil comes into contact with skin.</u> When handling this oil, wear <u>protective gloves</u> or take other measures to <u>prevent skin contact.</u> ● The inhalation of vapor may cause <u>nausea, headache, and dizziness.</u> When handling this oil, use <u>direct ventilation equipment,</u> wear a <u>respirator,</u> and take other measures to <u>prevent vapor inhalation.</u> ● Do not drink this oil. (Swallowing this oil can cause diarrhea and nausea.) ● <u>Keep out of reach of children.</u> ● For further information, read the Material Safety Data Sheet (MSDS).
First Aid	<ul style="list-style-type: none"> ● In case of eye contact, rinse eyes with clean water until the irritation ends and consult with a physician. ● In case of skin contact, wash skin thoroughly with soap and water. ● If this oil is swallowed, do not induce vomiting. Consult with a physician immediately. ● If vapor is inhaled, move the person to a location with fresh air, wrap the person in a blanket, keep the person warm and quiet, and consult with a physician.
Disposal of Used Oil and Containers	<ul style="list-style-type: none"> ● Do not apply pressure to empty containers. The containers may burst if pressure is applied. ● Do not weld, heat, drill, or cut the containers. The remaining oil may ignite and the containers may explode. ● Follow all applicable laws and regulations when disposing of used oil or containers. If you are unsure of the proper disposal methods, consult first with the seller of the oil.
Storage Method	Seal the container tightly after use in order to prevent dirt, moisture, etc., from entering the oil. Store in a dark location. Avoid direct sunlight.



Handling Precautions

▼TECLEAN N20,N22

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