



Pneumatic Tool Anti-Freeze Lubricant

APPLICATIONS

Pneumatic tool anti-freeze lubricant.

- **KILFROST** pneumatic tool anti-freeze and lubricant is a unique fluid designed to provide the three requirements of air powered tools:
 1. Lubrication of moving parts
 2. Corrosion protection
 3. Freeze protection.
- **KILFROST** is economical when fed at the correct rate and it is not readily blown out of the exhaust port and wastefully dissipated. Any pneumatic equipment subject to moist conditions will benefit from Kilfrost's unique ability to permanently absorb moisture and carry it out the exhaust port. This product is not recommended for use above 100°F. It is used to prevent dieseling in rock drills and other equipment which is important in underground operations or where natural gas leaks may be encountered.
- **KILFROST IS NOT AN ADDITIVE.** It is to be used as received. Kilfrost absorbs the water in the air line, depressing the freezing point, thus eliminating freezing. Kilfrost maintains high lubricity, unlike other air line oils whose lubrication qualities deteriorate rapidly when water is present. Kilfrost is a semi-synthetic lubricant that has none of the drawbacks associated with mineral oils.
- **KILFROST IS NOT FOR DE-ICING OPERATIONS ON AIRCRAFT.**
- **KILFROST** is the only true anti-freeze air line lubricant which will not damage polycarbonate bowls, polyurethane or Buna seals.
- **KILFROST must be introduced to the air stream by an air line lubricator which will atomize the liquid and meter the flow.**
- **Uses include:** air controls, air motors, buffers, chamfering tools, chippers, chisels, control valves, cutters, deburring tools, drills, excavators, grinders, impact wrenches, jackhammers, nibblers, nut runners, polishers, riveting tools, rock drills, scalers, sanders, shears, and tampers.

ADVANTAGES

- Prevents freezing.
- Restores power.
- Absorbs moisture.
- Fire resistant.
- Enhanced tool wear protection.
- Provides rust and corrosion protection.
- Prevents tool "dieseling".

TOTAL Specialties USA, Inc.

Linden, NJ 07036
5 North Stiles Street
1-800-323-3198
www.totalspecialties.com

KILFROST

7-2016



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INDUSTRIES SERVED

- Civil Engineering Sites
- Concrete Plants
- Construction
- Contractors
- U.S. Military NSN# 9150012661623
- Logging
- Mining
- Municipalities
- Oil & Gas Exploration
- Pulp & Paper
- Quarries
- Utilities
- Shipyards
- Transportation Service

TYPICAL PROPERTIES

Product Code #	200269
Appearance	Light Amber
Specific Gravity, @ 60°F	1.07
Density, Pounds per Gallon	8.94
Viscosity, SUS @ 100°F	90

Viscosity, cSt @ 40°C	24.7
pH Value (50/50 mix with water)	8.2
Pour Point, ASTM D 97, °F	-50
Color, ASTM D – 1500	3.5 to 4.5
Cast Iron Chip Rust Test (50/50 mix with water)	Negative

PNEUMATIC KNOW-HOW

1. Keep your tools in a clean dry place.
2. Make sure the air is as clean and dry as possible.
3. Always blow hoses before they are connected to the tools so that dirt, ice and water are not carried by the air into the tools.
4. Always check for leaks in pipes, couplings, and valves.
5. If not fitted with automatic drain valves, remember to blow down the water filter regularly. This reduces the amount of moisture entering the tool.
6. Moisture in the compressed air in freezing weather causes freezing in the tools. Don't use alcohol, diesel oil, paraffin or similar products to prevent freezing. They destroy the oil film in the tools thereby increasing wear. Don't heat the tools on an open fire or with a blow torch; you will cause permanent damage to the tools.
7. USE KILFROST, THE ONLY LUBRICANT WITH A GUARANTEE AGAINST FREEZING IN COMPRESSED AIR TOOLS. IT IS NOT AN ADDITIVE AND MUST NOT BE MIXED WITH OTHER OILS.
8. Always use an air line lubricator and never let it get run empty.
9. Remember to regulate the lubricator. Too little lubrication increases maintenance and replacement costs. Take special care of the lubrication of a new tool. To assess correct lubrication, the hand may be held in front of the exhaust. The oil content in the exhaust should be such that you hand is slightly oily without being sticky. Feel that the shank is oily when changing steels.
10. If your retaining spring breaks or is loose, the inner parts will get excessive wear. Loose nuts must be tightened up at once.
11. Blow hoses and tools clean with compressed air at the end of the day or if they have to be sent to the workshop for repair.

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This lubricant must be applied as recommended and used for the application for which it was designed. TOTAL Specialties USA, Inc. will have no responsibility for any injury to persons or property resulting from misuse or misapplication of the lubricant. A safety data sheet conforming to the OSHA Hazard Communication Standard 29 CFR Section 1910.1200 can be downloaded at www.totalspecialties.com. Copyright 2016 All rights reserved.



Pneumatic Tool Anti-Freeze Lubricant.

12. At 16°F (-9°C) and below, it may be necessary to mount the airline lubricator at approximately the same height as the tool inlet port.

13. Kilfrost PTAFL should not be mixed with ordinary oils as this will impair its de-icing properties. For reasons of economy it is generally only necessary to use the lubricant at temperatures below 45°F (7°C). It is however, on occasions necessary to use Kilfrost at higher ambient temperature, this depending very much on the efficiency of the tool, but its use is not recommended at ambient temperatures above 40°C.

14. Although Kilfrost PTAFL will absorb up to 4 times its own weight of water, problems may still arise should the humidity be very high and the compressor produces a lot of water. In this case, adequate air drying equipment should be used or the problem may be solved by increasing the flow of Kilfrost through the lubricator. As with all air line oils, when working in confined spaces, it is essential that adequate ventilation be provided.

VISCOSITY FIGURES FOR ALL KILFROST PTAFL		
Temp. C°	°Engler	Centistokes
30	4.40	34.5
10	10.50	81.0
0	18.0	140.0
-10	34.0	261.0
-30	180.0	1370.0

Kilfrost PTAFL is approved by most of the world's compressed air equipment manufacturers.

SOME OF THE COMPANIES APPROVING THE USE OF KILFROST:

- Atlas Copco
- C.P.T.
- compare
- Gardner Denver (Dry Drilling)
- Halifax Tool Co.
- Joy Sullivan
- Ingersoll Rand.
- Ishikawakima-Harima H.I.
- Demag-FMA
- Flottmann
- Gebr. Böhler
- Irmer & Elze
- Krupp
- Premag
- Vibratechniques
- Craco Pumps
- Neumo
- Martonair
- C.A. Norgren
- Ditta Ing. Mario Axerio
- Off. Mecc. Di Precisione G. Sclaverano

Kilfrost PTAFL is stocked by branches and agents of many of the pneumatic tool manufacturers. In the event of difficulty in obtaining supplies please contact us directly.

Shelf Life: 18 months from date of manufacture

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