



VULTREX™ ROCK DRILL EP000 Rock Drill Lubricant

Introduction

VULTREX™ ROCK DRILL EP000 is a semi-fluid grease, specifically formulated for mist-free operation when used in air-operated rock drills and similar mining equipment. This mode of lubrication has been in use for over 35 years in underground mining operations in several countries of the world. VULTREX™ ROCK DRILL EP000 is a more productive, more environmentally acceptable, cleaner alternative to oil lubrication. This semi-fluid grease meets the specifications of equipment manufacturers such as: Ingersoll-Rand, Worthington, Parts Headquarters Inc., and Joy†.

Features and Benefits

- **Environmentally acceptable**
 - Provides a safe and healthier alternative to oil lubrication
 - Drills less noisy than when oil lubricated
- **Cost effective**
 - Can be applied using existing oil lubricators
 - Extends drill component life
 - Significantly reduces lubricant consumption (up to 40%)
- **Extends drill life**
 - Drills run cooler than when oil lubricated
 - Grease forms an adhesive, protective film which prevents rust and corrosion
 - Prevents scoring and minimizes wear
 - Protects drill in wet environment
 - Extends drill component life up to 20%

Applications

VULTREX™ ROCK DRILL EP000 is recommended for the lubrication of air-operated rock drills and similar mining equipment used in underground mining. VULTREX™ ROCK DRILL EP000 is used in oil lubricators commonly referred to as the “football” type Venturi lubricators which are fabricated by several manufactures such as Parts Headquarters Inc. who are one of the largest suppliers of this lubricator type in North America. VULTREX™ ROCK DRILL EP000 can be applied easily at fairly low temperatures in the 0 to 5°C/32 to 41°F range but field testing has confirmed it will still flow down to -20°C/-4°F.

It is advisable to manually pre-lubricate a “dry” drill during assembly or maintenance with some of this grease prior to hook-up to the lubricator. In this way, the drill is protected during start-up before grease can reach the drill through lubricator lines.

What is the HT difference?

Petro-Canada starts with the HT purity process to produce water-white, 99.9% pure base oils. The result is a range of lubricants, specialty fluids and greases that deliver maximum performance for our customers.



† Parts Headquarters purchased Joy's technology and equipment and now manufacture pneumatic rock drills under the PHQ brand name.

Typical Performance Data

PROPERTY	TEST METHOD	VULTREX™ ROCK DRILL EP000
Worked Penetration, 60 Str. @ 25°C	ASTM D217	458
Dropping point, °C / °F	ASTM D2265	158/316
Colour		Dark Amber
Copper corrosion	ASTM D4048	1a
Four-ball wear, scar diam, mm	ASTM D2266	0.4
Four-ball weld point, Kg	ASTM D2596	200
Timken OK load, Kg (lb)	ASTM D2509	18 (40)
Mobility @ -35°C, g/s	PCM533	0.01
-40°C, g/s		0.002
Base Oil Viscosity cSt, @ 40°C/SUV @ 100°F	ASTM D445	129/679
@ 100°C/SUV @ 212°F	ASTM D445	13.1/72
Viscosity Index	ASTM D2270	94

The values quoted above are typical of normal production. They do not constitute a specification.

Health and Safety

To obtain Material Safety Data Sheet (MSDS), contact one of Petro-Canada's TechData Info Lines.



TechData Info Lines

To place an order, please call a Customer Order Management Representative at :

Canada (English) Phone 1-800-268-5850
(French) Phone 1-800-576-1686
United States Phone 1-877-730-2369
Latin America Phone +1-416-730-2369
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China Phone +86 (21) 6362-0066

To learn more about how Petro-Canada lubricants, specialty fluids, oils and greases can help maximize your equipment performance, savings and productivity, please contact us at :

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Germany Phone +49 (0) 201-726-2913
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Beyond today's standards.

