

## B I O R O C K D R I L L

### Biodegradable Rock Drill Lubricant

#### Description

**BIO ROCK DRILL** is a high performance, vegetable oil based, readily biodegradable drilling lubricant. **BIO ROCK DRILL** contains specially selected EP/Extreme Pressure and AW/Anti-Wear additives and naturally present extremely high Viscosity Index for superior level of lubricity and improved anti-corrosion & anti-wear protection. **BIO ROCK DRILL** was developed to replace the usual mineral oil based rock drill lubricants in order to provide a greater performance and reduce environmental footprint.

#### Areas of Application

**BIO ROCK DRILL** is designed lubricant for all types of rock drilling applications in mining, quarrying, constructions, road works, tunnelling and excavations. **BIO ROCK DRILL** is particularly recommended for use in environmentally sensitive areas to minimise contamination of surface and groundwater.

#### Characteristic features

- Excellent lubricating properties - far superior than that of mineral oils
- Naturally greater adhesion than mineral oils
- High oil film strength
- Improved anti-corrosion & anti-wear protection
- Increased overall system efficiency
- Lower lubricant usage
- Positive impact on CO<sub>2</sub> emissions
- Readily biodegradable – Over 98% Biodegradability within 21 days

#### TYPICAL CHARACTERISTICS

PARAMETER	UNIT	TEST METHOD	BRD 40	BRD 100
Density at 15 °C	kg/m <sup>3</sup>	ISO 12185	912	935
Kinematic Viscosity at 40°C	mm <sup>2</sup> /s	ASTM D445	40	100
Kinematic Viscosity at 100°C	mm <sup>2</sup> /s	ASTM D445	8.6	18.1
Viscosity Index (VI)			>200	>200
Pour point	°C	ASTM D97	<-30	<-30
Flash point, COC	°C	ASTM D92	>270	>250
Steel corrosion at 100°C/3h			negative	negative
Biodegradability (within 21 days)	%	OECD 301B	>98	>98

Issue Date: 20/12/2016

**Pacific Bio Lubricants Limited**  
 11H Piermark Dr., North Harbour  
 Auckland 0632, New Zealand  
 Postal: PO Box 35085, Auckland 0753

**Sales and Technical Support**  
 Phone: +64 9 973 4390  
 NZ Freephone: 0800 582 326  
 Email: info@lubeco.co.nz

