

## Product Description

D-A **eco-drill**<sup>™</sup> is a readily biodegradable rock drill oil specially designed for use in extreme working conditions with percussive pneumatic tools, down-the-hole (DTH), and surface drilling equipment. This lubricant begins with naturally high viscosity index base oils for temperature shear stability and is formulated with our advanced ChemGuard<sup>™</sup> additive technology.

The D-A ChemGuard<sup>™</sup> innovative formula has a vigorous EP/antiwear inhibitor that reduces welding or scoring when under constant shock and high load situations. D-A **eco-drill**<sup>™</sup> protects against rust and corrosion and also has a built-in emulsifier for severe circumstances where water and compressed air co-exist. A robust tackifier is added for the preferred adhesiveness that protects against undesired misting or when water spray is present and sustains its strength where superior lubricity is expected.

D-A **eco-drill**<sup>™</sup> is rigorously tested for its performance as well as its environmentally safe components. This product is highly recommended for use in monitored or environmentally sensitive locations.

D-A **eco-drill**<sup>™</sup> may also be utilized in Mining and Tunneling, Jack-Hammers, Paving Breakers, Chippers, Tampers, Scalers, Impacters, Roofbolters, Screamer Pumps, and Water Injection Plunger Pumps.

## Product Features and Benefits

Excellent temperature and shear stability  
Robust tackifier, adheres to metals for decreased galling, shanking or burning of parts  
Exceptional emulsifying agent for enhanced lubricity  
Vigorous ChemGuard<sup>™</sup> EP/antiwear additive package  
Biodegradable - Readily

### PRODUCT AT A GLANCE

- Readily biodegradable
- For extreme working conditions for percussive pneumatic tools, DTH and surface drilling
- Vigorous ChemGuard<sup>™</sup> EP/antiwear additive package
- Robust tackifier
- Emulsifying agent for enhanced lubricity
- Environmentally safe components



**D-A Lubricant Company, Inc.**

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### Typical Applications

Readily Biodegradable Air Line lubrication for all Rock Drills. (Also makes an excellent Air Line Oil for pneumatic tools such as Paving Breakers, Hammers, Chippers, Tampers, Scalers, Impacters, etc.) eco-drill is also an excellent bar oil for chain saws.

Use to avoid possible environmental contamination.

#### General Remarks:

In extremely cold weather, consult the manufacturer's operating or service manual.

### Typical Properties

ISO Grade	ASTM D2422	46	68	100	150	220
Specific Gravity	ASTM D891	.929	.933	.940	.947	.948
API Gravity	ASTM D287	20.7	20.1	19.0	17.9	17.7
Viscosity @ 40°C,cSt	ASTM D445	46.8	66.2	98.6	156.4	216.0
Viscosity @ 100°C,cSt	ASTM D445	10.0	11.8	17.8	23.4	28.2
Viscosity Index	ASTM D2270	190	188	185	180	175
Pour Point, °F (°C)	ASTM D97	-20 (-29)	-15 (-26)	-10 (-23)	-0 (-18)	5 (-15)
Flash Point, °F (°C)	ASTM D92	514 (268)	540 (282)	550 (288)	574 (301)	574 (301)
4-Ball Wear, Scar Dia, mm	ASTM4172	0.41	0.41	0.41	0.41	0.41
4-Ball EP Weld Load at 500 kg	ASTM D2783	91.4	91.4	91.4	91.4	91.4
Falex Pin & Vee Block Max load in lbs	ASTM D3233 A	3,500	3,500	3,500	3,500	3,500
D-A Part No.	Drums	14222	14232	14242	14252	14262
	Pails	14228	14238	14248	14258	14268



To Order D-A Products, Call 1-800-OIL-LUBE (1-800-645-5823) or Fax orders to 765-482-3065  
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