

## EnviroSUM Rock Drill Oil

We value a sustainable approach to the environment. Lubrication can be clean and green while reducing costs.

Our Triumph EA (Environmentally Acceptable) product line is classified as Environmentally Responsible by the Organization for Economic Co-operation and Development (OECD) standards, using high quality base stocks that efficiently biodegrade in only 60 days. These products can be trusted in all environmentally sensitive areas.

Triumph EA Rock Drill Oil is designated as an environmentally responsible alternative to conventional and low-grade vegetable stock rock drill oils. This lubrication combines high levels of biodegradability with enhanced hammer and drill head performance. It excels in pneumatic and rotary percussive drilling applications

**EnviroSUM EA Rock Drill Oil:** For use in top hammer and down the hole (DTH) hammer systems. To be mixed with the air stream in pneumatic drills using a standard air-oil system. Environmentally Responsible.

ISO 30: 36630-20-1 (20L Pail)  
ISO 30: 36630-205-1 (205L Drum)

ISO 90: 36690-20-1 (20L Pail)  
ISO 90: 36690-205-1 (205L Drum)

HV: 366HV-20-1 (20L Pail)  
HV: 366HV-205-1 (205L Drum)

TYPICAL PROPERTIES	ASTM METHOD	ISO 30	ISO 90
ISO GRADE		30	90
Kinematic Viscosity @ 40°C (cSt)	D 445	28	90
Kinematic Viscosity @ 100°C (cSt)	D 445	5.2	n
Viscosity Index	D 2270	n	n
Density @ 20°C (kg/L)	D 1298	n	0.887
Pour Point (°C)	D 97	-40	-36
Flash Point (°C)	D 92	204	230
PERFORMANCE TESTING			
Rust Prevention	D 665	Pass	Pass
EP Load (MPa)		965	965
Primary Biodegradability (%)	CEC-L-33-A93	> 60*	> 60*
Trout Toxicity @96 hrs LC50 (ppm)	OECD 203	n/a	n/a

\*If greater biodegradability is required, use EnviroSUM – **Biodegradable** Rock Drill Oil

and provides long component life in both wet and dry operating conditions, extends drill pipe life and provides superior extreme pressure performance, and low temperature pumpability for all top hammer and DTH drill systems.

This environmental, performance formula can also extend hammer and tool life and reduce oil consumption.

### ADVANTAGES

- Does not separate or become rancid
- High EP for excellent load carrying capability
- Fights rust and corrosion
- Tenacious anti-wear film
- Resists water washout