

MATEX

RDO 302 ES / RDO 302 ES MW*

VEGETABLE OIL BASED ENVIRONMENTALLY SAFE ROCK DRILL OIL

THAT ADDS TO YOUR PROFITS

RDO 302 ES is a unique product developed for all types of drilling where rock drill oils are used, such as D.T.H., air tracks percussive drills, casing drivers and top hammers.

RDO 302 ES reduces the potential of environmental damage during mining production, mineral exploration, construction and quarrying.

RDO 302 ES has proprietary lubricating compounds that are not washed off by water or drilling additives. Rust does not develop on internal parts when the hammer is not used.

RDO 302 ES has a special filming additive that prevents piston scuffing and heat build up. Purchase of internal hammer parts is reduced dramatically.

RDO 302 ES prevents spline wear on bits.

RDO 302 ES reduces oil consumption.

RDO 302 ES **SOLUBLE** reduces oil misting underground.

RDO 302 ES MW is particularly suitable for drilling uncontaminated WATER WELLS AND MONITOR WELLS.

Typical Specifications:

Viscosity	@100°C	8.42 Cst.
	@ 40°C	46.0 Cst.
Specific Gravity	@ 25°C	0.907
VI		214
Pour Point		-15°C (-36°C) winter grade
Flash Point		292°C
LC50		10,000 ppm+
Heavy Metals		none
Active Ingredients		5 - 10 %

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RDO 302 ES HIGHLIGHTS

Application: Replaces present Rock Drill Oils for use in pneumatic and percussive drilling. Eg. downhole hammers, pneumatic mining drills, (Jumbo's and Stoppers), air tracks, hydraulic percussive drills , etc.

Purpose: Provides an **environmentally safe product** that lubricates more effectively than conventional Rock Drill Oils while reducing contamination of surface and groundwaters. Particularly suited for drilling in sensitive areas such as adjacent to streams and lakes, or where groundwater protection is important.

SPECIFIC USES AND ADVANTAGES

Water Wells:

RDO 302 ES provides a more effective way of lubricating D.T.H.'s and avoids contaminating the waterwell or the groundwater. Drillers should have no trouble accepting product, particularly with consumer's heightened awareness of environmental issues.

Monitor Wells:

The use of conventional Rock Drill Oils is not allowed in this application because of the introduction of hydrocarbons into the groundwater where sampling is to take place. Such substitutes as Crisco, etc. do not offer lubricating characteristics. RDO 302 ES is not only free of any petroleum hydrocarbons, priority pollutants, etc., but it is also an effective lubricant. RDO 302 ES has been approved on a number of occasions for this purpose by both engineering companies and government agencies. This is on a project by project approval based on the data presented. Not using lubricants while drilling Monitor Wells shortens the life of the hammer and also introduces metallic contamination (eg. lead) to the groundwater as the hammer and bit wear down.

Oil and Gas Wells:

A common practice in certain areas of the Eastern U.S. is drilling with a D.T.H.. The deeper the drilling the less the conventional oil gets to the hammer. Our experience in this area has been with drilling 10,000 - 12,000' holes using 18" hammers and 22" bits. RDO 302 ES proved to be much more effective than the conventional oil in saving hammers and pistons. Better performance combined with the fact that the amount of mineral oils allowed in the sump is being restricted make RDO 302 ES a natural. If they are water misting then Bio Cut Plus would also be applicable.