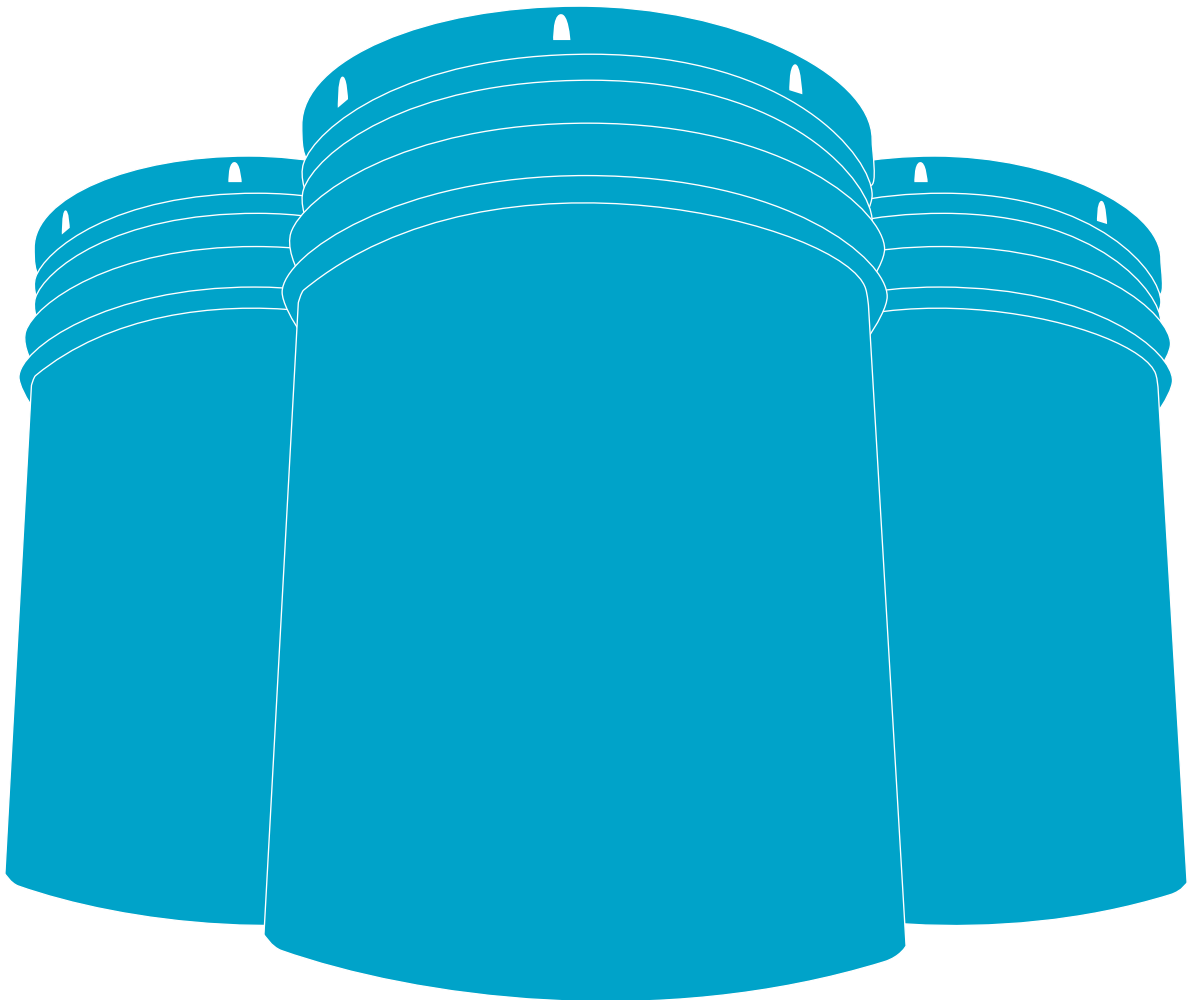


ATLAS COPCO ROCK DRILL OIL

An environmentally safe lubricant
that combines technology and
environment



DO YOUR BEST FOR BOTH THE ENVIRONMENT AND YOUR EQUIPMENT

Atlas Copco Rock Drill Oil is specially developed for Atlas Copco pneumatic and hydraulic rock drills and down-the-hole hammers. The lubricating oil is made of carefully selected components that gives the highest technical performance, and has a wide temperature range that gives you optimum operation in the most different ambient temperatures.

It is especially suitable for water well drilling since there is no contamination from mineral oils.

MEETING HIGH DEMANDS

The development of lubricating oil for pneumatic and hydraulic tools has been driven by the high demands on environment and reliability. It withstands heavy loads and protects against wear and corrosion.

RENEWABLE RAW MATERIALS

More and more users are recognising the advantages of using environmentally adapted lubricants. In applications where the lubricant is contaminating the surroundings, the use of environmentally adapted lubricants will therefore become strong in demand. Atlas Copco Rock Drill Oil is based on renewable raw materials that are readily biodegradable.

FOR ALL TYPES OF DRILLING

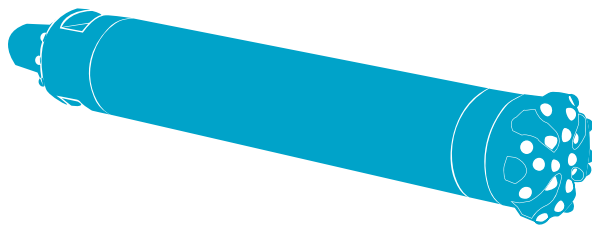
Atlas Copco Rock Drill Oil is a unique product developed for all types of drilling where percussive hammers are used, such as DTH hammer, air tracks, casing drivers and top hammers to save wear and improve their performance. We recommend the use of Atlas Copco Rock Drill Oil in all in-line lubricators.

MINIMIZE CONTAMINATION

Atlas Copco Rock Drill Oil reduces the potential of surface or groundwater environmental damage during mining production, mineral exploration, construction of roads and pipelines, quarrying, water well drilling, and oil and gas exploration. Particularly suited for drilling **uncontaminated water wells** in sensitive areas such as adjacent to streams and lakes, or where groundwater protection is important.

PROTECTS FROM CORROSION

Atlas Copco Rock Drill Oil has proprietary lubricating compounds that preferentially wet the steel, so they are resistant to being washed off in a water, saline water, or foam environment. This helps reduce the corrosion (rust) that can develop in these environments on the internal parts of the hammer even after the equipment has been used. Atlas Copco Rock Drill Oil also has a special filming additive that prevents piston scuffing and heat build up. Wear of internal hammer parts is reduced dramatically thereby increasing profitability.

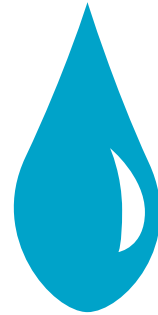


REDUCES CONSUMPTION

Atlas Copco Rock Drill Oil has a viscosity that allows the lubricant to flow freely to areas requiring lubrication. Lubrication can be better controlled and consumption reduced by using Atlas Copco Rock Drill Oil.

HIGHER EFFICIENCY

Atlas Copco Rock Drill Oil is an environmentally safe product that lubricates more effectively than conventional lubricants, while reducing contamination of surface and groundwater.



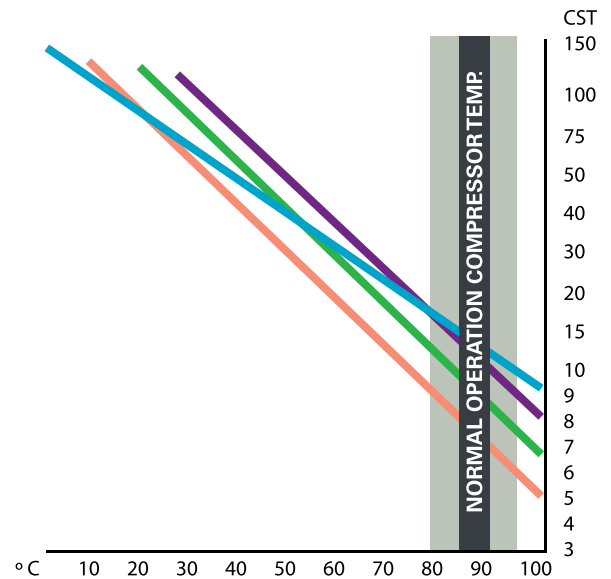
PRODUCT FEATURES

- Reduces the risk of scoring and abrasion.
- Protects against corrosion and oxidation.
- Insensitive to ambient temperature variations.
- Works equally well throughout the temperature range - 35°C to + 45°C (-31°F to +113°F).
- Provides a lubricant film in excess of 100,000 PSI / 689 MPa.
- Bio Based - 100% renewable raw materials.

TECHNICAL FEATURES

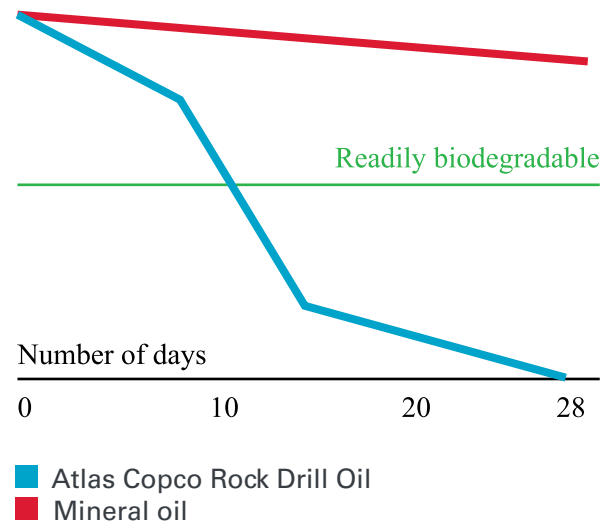
Specific density	907 kg/m ³
Boiling point	> 300°C
Freezing point	-30°C
pH	7,0 - 7,3
Flashpoint and method of determination	> 279°C C.O.C.

VISCOSITY vs TEMPERATURE



- Atlas Copco Rock Drill Oil
- ISO 68 viscosity/temperature relationship
- ISO 46 viscosity/temperature relationship
- ISO 32 viscosity/temperature relationship

BIODEGRADABILITY



- Atlas Copco Rock Drill Oil
- Mineral oil



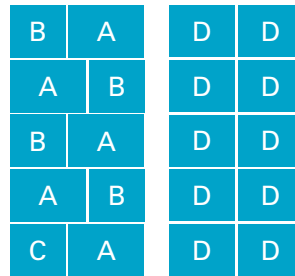
TECHNICAL DATA COMPARISON

	BioBlend RDP 100	Mobil Almo 527	Shell Torcula 100	Chevron Aries 100	Atlas Copco Rock Drill Oil
ISO grade	100	not listed	100	100	46
Viscosity @ 40°C	100,0	112,9	100,0	95,0	46,0
Viscosity @ 100°C	19,3	11,4	11,6	10,9	8,9
Viscosity index	>220	91	104	98	>214
Pour point °C	-35	-30	-33	-31	-35
Flash point °C	>315	204	263	230	>279
Timken OK load	>27 kg	not listed	23 kg	30 kg	35 kg
Falex E.P.	3500	not listed	not listed	3200	>10 000
Biodegradability	>90%	Environmentally persistent	Environmentally persistent	Environmentally persistent	>99%

CONTAINER LOADING DIAGRAMS

PALLET	SIZE	QTY
A	48 x 36 in	60 Pails
B	48 x 48 in	80 Pails
C	36 x 36 in	45 Pails
D	44 x 44 in	4 Drums

20 ft container



PAILS:
665 pcs
WEIGHT:
26 600 lbs
11 970 kg

DRUMS:
80 pcs ¹⁾
WEIGHT:
36 160 lbs
16 400 kg

¹⁾ Pallets stacked 2 high

40 ft container ²⁾



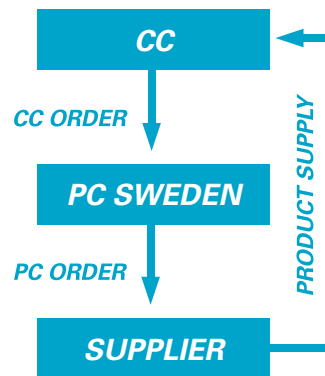
PAILS:
1330 pcs
WEIGHT:
53 200 lbs
23 940 kg

²⁾ Pails only

ORDERING INFORMATION

Required order information

- 1) Billing address and contact info
- 2) Preferred port of delivery
- 3) Final destination address and contact info
- 4) Business or Tax ID number
- 5) Shipping Terms (EXWORKS / CIF Port)
- 6) Preferred customs broker and freight forwarder contact info
- 7) P.O. (Purchase order) / Reference number
- 8) P.O. issue date



Minimum LCL (Less than container) order is 192 pails on 4 pallets

20 ft container order is 665 pails

40 ft container order is 1330 pails

PROD. NO.	PROD. CODE	DESCRIPTION	WEIGHT	VOLUME
89010563	9900	Atlas Copco Rock Drill Oil, 20 L Pail	18 kg / 40 lbs	20 l / 4,4 imp.gal. / 5,5 US gal.
89010564	9901	Atlas Copco Rock Drill Oil, 205 L Drum	205 kg / 452 lbs	205 l / 45,1 imp.gal. / 54,2 US gal.

COMMITTED TO SUSTAINABLE PRODUCTIVITY

We stand by our responsibilities towards our customers, towards the environment and the people around us. We make performance stand a test of time. This is what we call - Sustainable Productivity

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Atlas Copco