

TECHNICAL DATA SHEET

ROCK DRILL OIL



DESCRIPTION

Rock Drill Oils are specially formulated for the lubrication of percussion type air tools. They have good EP properties, provide good rust protection, are non corrosive to air tool parts and resist water washing. They are available in ISO viscosity grades 100, 150, 220, 320 and 460 to provide the correct choice for most operating or climatic conditions in Australia.

SUMMARY OF BENEFITS

- Protects surfaces in wet conditions: Resist water washing by emulsifying slightly with moisture to form a strongly adhering lubricating film that provides good wear protection, protects against rusting and corrosion and resists removal by additional water.
- Prolongs equipment life: Excellent extreme pressure and anti-wear properties are demonstrated by the ability of Rock Drill Oil to exceed Gardner-Denver's Modified Weeks EP Test requirement of 2110 Mpa (300,000 psi). In service, wear due to high speeds and heavy or shock loads is minimised. Inclusion of a tackiness agent insures adhesion to drill surfaces.
- Trouble free operation: Highly refined base oils with low carbon forming characteristics and oxidation inhibitors prevent the formation of sludge and deposits which can produce sluggish valve action. Effective antifoam inhibitor resists foaming in air-line lubricators so oil feed to the tool will be uniform and easily controlled. Special anti-fogging additive minimises formation of fog in the drill exhaust.

RECOMMENDATIONS

- Percussion type air tools of all kinds, including rock drills, concrete and paving breakers (jack hammers), pneumatic pile drivers, ballast tampers, rammers, riveting and chipping hammers etc

SPECIFICATIONS

- DIN 51517 PART 3
- US STEEL 224

PERFORMANCE CHARACTERISTICS

- Rock Drill oils are suitable for use with equipment from Atlas Copco, Consolidated Pneumatic, Gardner Denver, Ingersoll Rand, Yamamoto and other manufacturers except for Holman and Broomwade – use SUPERDRAULIC 32 OR TORQUE OIL SAE 10W.

ROCK DRILL OIL	TEST METHOD	UNITS	32	46	68	100	150	220	320	460
DENSITY @ 15°C	ASTM D1298	kg/L	0.867	0.872	0.875	0.88	0.89	0.892	0.895	0.899
KINEMATIC VISCOSITY										
@ 40°C	ASTM D445	cSt	32.3	46.5	68	100.6	146.1	220.2	317	460
@ 100°C	ASTM D445	cSt	5.42	6.9	9.2	11.42	14.7	19.4	24.6	31.7
VISCOSITY INDEX	ASTM D2270	-	102	104	112	100	100	100	99	102
POUR POINT, °C	ASTM D97	°C	-33	-30	-27	-30	-27	-24	-21	-11
FLASH POINT, COC, °C	ASTM D92	°C	204	210	222	226	238	248	256	243
TIMKEN LOAD	ASTM D2782	lbs	70	70	70	70	70	70	70	70
FOUR BALL WEAR, SCAR DIAMETER	ASTM D4172	mm	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37
FOUR BALL WELD LOAD	ASTM D2783	kg/f	315	315	315	315	315	315	315	315
RUST PREVENTION	ASTM D665A	% mass	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS
COPPER CORROSION	ASTM D130	% mass	1a	1a	1a	1a	1a	1a	1a	1a

Typical characteristics are only a guide to industry and are not necessarily manufacturing or marketing specifications and do not constitute any legal liability.

STORAGE INSTRUCTIONS & HEALTH, SAFETY AND ENVIRONMENT INFORMATION

All packages should be stored under cover to avoid the possible ingress of water and the obliteration of drum markings. Products should not be stored above 60°C. Health, safety and environmental information is provided for this product in the relevant Materials Safety Data Sheet, which can be obtained by contacting Gulf Western Oil on: 02 9673 9600.

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