

CRI

CENTER ROCK INC.



HAMMER HONEYTM ECO

BIODEGRADABLE ROCK DRILL OIL

Center Rock Inc's, specially formulated Hammer HoneyTM ECO is a readily biodegradable, environmentally friendly, premium rock drill oil. CRI's Hammer HoneyTM ECO provides an excellent balance of tackifiers, emulsibility, and corrosion protection that makes it uniquely suited for demanding down-the-hole applications. Hammer HoneyTM ECO's unique extreme-pressure additives prevent steel-on-steel galling and burning of hammer parts and bits that can lead to catastrophic failure.

HAMMER HONEY™ ECO FEATURES AND BENEFITS:

Readily Biodegradable

Excellent temperature and shear stability

Robust tackifier adheres to metal parts to decrease galling, shanking and burning of parts

Exceptional emulsifying agent for enhanced lubricity

Vigorous EP / antiwear additive package

Wide range of viscosity grades available

HAMMER HONEY™ ECO BIODEGRADABLE ROCK DRILL OIL SPECIFICATIONS

SPECIFICATION	ASTM TEST	ISO GRADE				
		46	68	100	150	220
ISO Grade	ASTM D2422	46	68	100	150	220
Specific Gravity	ASTM D891	0.929	0.933	0.940	0.947	0.948
API Gravity	ASTM D287	20.7	20.1	19.0	17.9	17.7
Viscosity at 40 ° C cSt	ASTM D445	46.8	66.2	98.6	156.4	216.0
Viscosity at 100 ° C cSt	ASTM D445	10.0	11.8	17.8	23.4	28.2
Viscosity Index (VI)	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	ASTM D4172	0.41	0.41	0.41	0.41	0.41
4-Ball EP Weld Load @ 500 kg	ASTM D2783	91.4	91.4	91.4	91.4	91.4
Falex Pin & Vee Block, Max Load, lbs	ASTM D3233 A	3,500	3,500	3,500	3,500	3,500
Consistency	Visual	Tacky & Stringy				

HAMMER HONEY™ ECO BIODEGRADABLE PART NUMBERS

ISO GRADE	5 GALLON	55 GALLON	275 GALLON TOTE
	PART NUMBER	PART NUMBER	PART NUMBER
46	OIL-HH46-ECO-5	OIL-HH46-ECO-55	OIL-HH46-ECO-275
68	OIL-HH68-ECO-5	OIL-HH68-ECO-55	OIL-HH68-ECO-275
100	OIL-HH100-ECO-5	OIL-HH100-ECO-55	OIL-HH100-ECO-275
150	OIL-HH150-ECO-5	OIL-HH150-ECO-55	OIL-HH150-ECO-275
220	OIL-HH220-ECO-5	OIL-HH220-ECO-55	OIL-HH220-ECO-275

Center Rock Inc.

Our technology optimizes your impact.

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**Drill Faster
Run Harder
Work Smarter**