



RYKON[®] EP, HD, HD M5 1, 2

PRODUCT DESCRIPTION

Rykon[®] EP and HD are Chevron's line of overbased calcium sulfonate complex greases that are available with or without molybdenum disulfide. Rykon delivers superior water resistance performance to protect your equipment from failures and your operation from downtime. These greases are designed for plain and anti-friction bearing applications operating under high stress/high load conditions, coupled with high ambient temperatures typically found in heavy duty off-road applications.

CUSTOMER BENEFITS

Rykon greases deliver value for the off-road construction and mining industries by offering:

- **Extreme pressure high-load carrying capacity** - Protection against shock loading, thus promoting long bearing life
- **Excellent corrosion and wear protection** - Especially in wet conditions
- **Excellent water resistance** - Good resistance to wash-out of bearings in submerged or direct spray situations
- **Excellent high temperature stability** - Offers lasting bearing protection
- **Outstanding low temperature pumpability** - Easy handling in the container and grease dispensing equipment

FEATURES

Rykon greases utilize an overbased calcium sulfonate complex thickener system that produces multipurpose, high-performance products that protect against corrosion, wear, have high dropping points and good thermal stability. They are specially formulated for plain and anti-friction bearing applications operating under high stress/high load and wet conditions typically found in heavy duty off-road applications. This line of grease was specifically designed to lubricate and protect equipment that is subjected to demanding conditions.

RYKON[®] EP

Rykon EP is our multipurpose product which works in many applications and provides good protection from wear, shock loading, and corrosion.

RYKON[®] HD

Rykon HD is used in demanding applications in wet environments. This product features all the benefits of Rykon EP, but the heavier viscosity can provide better protection for higher loads and slower speeds.

RYKON[®] HD M5

Rykon HD M5 features a boost of 5% moly product to meet the demands of OEMs of off-road applications. They feature great shock loading and provide anti-weld protection.

Product(s) manufactured in the USA.

Always confirm that the product selected is consistent with the original equipment manufacturer's recommendation for the equipment operating conditions and customer's maintenance practices.

A **Chevron** company product

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APPLICATIONS

Rykon greases are designed for extreme duty in a wide variety of on-highway and light duty off-road vehicle and equipment applications.

- **Off-Road Construction** - These greases display outstanding water washout and spray-off resistance properties in wet, off-road environments and offer excellent shock load extreme pressure (EP) protection. Unique additive technology of these products makes them tenacious at adhering to metal surfaces found in this industry while protecting these vital components from rust and corrosion.

Applications for the product include most types of heavy-duty earth moving machinery, including tractors (dozers), excavators, backhoes, shovels, high lifts, articulated loaders, haul trucks, tri-axle dumps and more. They are excellent for heavily loaded machine implement pins and bushings, and other applications operating in severe, high shockload environments where metal to metal contact wear often occurs. Since Rykon greases are offered in 5% moly containing versions, they are also able to meet wide off-road OEM application ranges using one common product line, thus reducing field inventory.

- **Surface and Underground Mining and Quarry** - Applications appropriate for these greases include those found above plus pins and bushings on buckets, loaders, shovels and continuous miners, shaker screens, crushers, and conveyors.
- **Agriculture** - Will serve as an excellent multipurpose heavy duty lubricant for both general and industrial farm and agricultural use, from medium to heavy duty front steer and articulated tractors and loaders to larger new rubber tracked units. These products will work well in many applications including three point hitches, high lift pins and bushings and other heavy duty farm related industrial machinery.
- **Heavy Duty On/Off Highway Road Construction and Maintenance Vehicles** - These products are well suited for greasing on/off road heavy duty tri-axle dump trucks and cement mixers that also find their way off road as much as on. Rykon HD greases are an excellent choice for king pins, bushing and bucket pins, 5th wheels and other severe duty applications found on these types

of vehicles. They also meet Caterpillar recommendations for greases containing 5% molybdenum disulfide.

- **Paper and Forest Products** - Rykon HD is recommended for applications such as: pumps, woodyard heavy equipment, rope sheaves, exhaust fan bearings, and any general lubrication points needing a high water wash-out grease.
- **Light Duty Off-Road Vehicles** - Whether the application is in logging, agriculture or utilities, these greases will perform. Use them in tractors, cherry pickers or any of a number of light duty off-road vehicles.
- **Manufacturing and Steel** - Rykon greases are formulated to withstand the demanding conditions of manufacturing and steel industries. Their high-load capacity, excellent water resistance, and ability to tolerate a wide range of temperatures ensure they maintain their physical and performance properties under extreme conditions.

Rykon greases are NLGI GC-LB certified.



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TYPICAL TEST DATA

	Test Method	Rykon EP 1	Rykon EP 2	Rykon HD 1
Product Number		255656	255652	255657
SDS/MSDS Number USA		58137	58137	58137
Operating Temperature, °C(°F) Minimum ^a Maximum ^b		-30(-22) 177(350)	-20 (-4) 177(350)	-30(-22) 177(350)
Thickener Type		Calcium Sulfonate Complex	Calcium Sulfonate Complex	Calcium Sulfonate Complex
ISO Viscosity Grade Base Oil Equivalent		220	220	460
Base Oil Viscosity, Kinematic cSt at 40°C cSt at 100°C	ASTM D445	220 19	220 19	460 31
Base Oil Viscosity Index	ASTM D2770	97	97	97
Penetration, at 25°C (77°F) Worked (60 strokes)	ASTM D217	315	280	316
Dropping Point, °C (°F)	ASTM D2265	304(579)	316(600)	304(579)
Four Ball Weld Point, kg Load Wear Index, kg	ASTM D2596	800 142	800 142	800 105
Four Ball Wear Scar, mm	ASTM 2266	0.35	0.50	0.37
Timken OK Load, lb	ASTM D2509	60	60	65
Copper Corrosion, 3h at 100°C	ASTM D4048	1b	1b	1b
Bearing Rust Protection	ASTM D1743	Pass	Pass	Pass
Salt Fog Test, hrs	ASTM B117	>1000	>1000	>1000
Water Washout, wt% loss at 80°C (176°F)	ASTM D1264	1.1	2.5	2.3
Flow Pressure at -20°C, mbar	DIN 51 805	517	917	779
Oil Separation, wt%	ASTM D1742	0.0	0.1	0.0
Texture		Tacky	Tacky	Tacky
Color		Tan	Tan	Tan

- a Minimum operating temperature is the lowest temperature at which a grease, already in place, could be expected to provide lubrication. Most greases cannot be pumped at these minimum temperatures.
- b Maximum operating temperature is the highest temperature at which the grease could be used with frequent (daily) relubrication.

Minor variations in product typical test data are to be expected in normal manufacturing.

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TYPICAL TEST DATA

	Test Method	Rykon HD 2	Rykon HD 1 M5	Rykon HD 2 M5
Product Number		255653	255658	255654
SDS/MSDS Number USA		58137	58137	58137
Operating Temperature, °C(°F) Minimum ^a Maximum ^b		-20 (-4) 177(350)	-30(-22) 177(350)	-20 (-4) 177(350)
Thickener Type		Calcium Sulfonate Complex	Calcium Sulfonate Complex	Calcium Sulfonate Complex
ISO Viscosity Grade Base Oil Equivalent		460	460	460
Base Oil Viscosity, Kinematic cSt at 40°C cSt at 100°C	ASTM D445	460 31	460 31	460 31
Base Oil Viscosity Index	ASTM D2770	97	97	97
Penetration, at 25°C (77°F) Worked (60 strokes)	ASTM D217	280	324	280
Dropping Point, °C (°F)	ASTM D2265	306 (583)	303(577)	308 (586)
Four Ball Weld Point, kg Load Wear Index, kg	ASTM D2596	800 105	800 111	800 111
Four Ball Wear Scar, mm	ASTM 2266	0.43	0.32	0.43
Timken OK Load, lb	ASTM D2509	65	75	75
Copper Corrosion, 3h at 100°C	ASTM D4048	1b	1b	1b
Bearing Rust Protection	ASTM D1743	Pass	Pass	Pass
Salt Fog Test, hrs	ASTM B117	>1000	>1000	>1000
Water Washout, wt% loss at 80°C (176°F)	ASTM D1264	1.5	1.3	2.5
Flow Pressure at -20°C, mbar	DIN 51 805	1063	779	1103
Oil Separation, wt%	ASTM D1742	0.0	0.0	0.0
Molybdenum Disulfide Content, %		-	5	5
Texture		Tacky	Tacky	Tacky
Color		Tan	Grey/Black	Grey/Black

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