Technical Data Sheet

Shell Retinax Grease CMX 1 and 2

High Performance Greases with Enhanced Load Carrying Capacity for Off-Highway and Construction applications containing Solid Lubricants

Shell Retinax Greases CMX are high performance greases designed for use in off-highway, construction and mining applicatons operating under severe conditions and loads. Shell Retinax Greases CMX are based on a lithium complex soap thickener and contain extreme-pressure, anti-oxidation, anti-wear, anti-corrosion and adhesion additives. They also contain 3% molybdenum disulfide to provide resistance to shock loading.

Applications

Shell Retinax Greases CMX are recommended for the lubrication of shock loaded heavy duty bearings working in damp hostile conditions.

Particularly suited for use in off-highway applications and for the lubrication of bearings, bushings, pivot points and sliding surfaces.

Performance Features

- ***Outstanding mechanical stability***
  Maintains its excellent lubrication properties even when subjected to severe vibration. Prevents grease breakdown and leakage.
- ***Effective extreme-pressure properties***
  Efficient lubrication of heavily loaded components
- ***Good adhesive properties***
  In heavy load and shock conditions
- ***Excellent anti-wear performance under shock load conditions***
  Ensures protection of key components at all times

Approvals

Shell Retinax Greases CMX are recommended for applications requiring use of a Caterpillar MPGM type grease.

Operating Temperature Range

From -10°C to 120°C (140°C peak)

Dispensing

Shell Retinax Greases CMX are suitable for dispensing through standard lubrication equipment

Health & Safety

For information on the safe handling and use of this product, refer to its Material Safety Data Sheet at **http://www.shell-lubricants.com/msds/**. If you are a Shell Distributor, please call **1+800-468-6457** for all of your service needs. All other customers, please **call 1+800-840-5737** for all of your service needs. Information is also available on the World Wide Web: http://www.shell-lubricants.com/.

Advice

Advice on applications not shown on this leaflet may be obtained from your Shell Representative.

Typical Physical Characteristics

Shell Retinax Grease	**CMX 1**	**CMX 2**
Product Code **Bulk** **Drum** **Keg** **Pail** **Case (30-14.1 oz. Tubes)**	 7111600001 7111602400 7111602120 ------ 7111630141	 7111800001 7111802400 7111802120 7111835203 7111830141
NLGI Consistency	1	2
Color	Dark gray	Dark gray
Soap Type	Lithium Complex	Lithium Complex
Base Oil (type)	Mineral	Mineral
Kinematic Viscosity @ 40°C cSt 100°C cSt (ASTM D445)	 320 25	 320 25
Cone Penetration Worked @ 25°C 0.1 mm (ASTM D217)	310-340	265-295
Dropping Point °C (ASTM D2265)	240	240
Four-Ball EP Weld Point kgf (ASTM D2596)	400	400
Four-Ball Wear mm 1 hr@ 75°C/40 kgf/1200 rpm (ASTM D2266)	0.5	0.5
Rust Test Distilled Water (ASTM D2266)	Pass	Pass
Copper Corrosion (ASTM D4048)	1b	1b

These characteristics are typical of current production. Whilst future production will conform to Shell's specification, variations in these characteristics may occur.