

# Shell RETINAX® Grease CMX

## *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 applications 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.

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### Performance Features and Benefits

- **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

### Main 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.

Advice on applications not covered in this handbook may be obtained from your Shell representative.

### Specification, Approvals, and Recommendations

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

### Handling and Safety Information

For information on the safe handling, storage, or use of this product, refer to its Material Safety Data Sheet at <http://www.epc.shell.com/>. If you are a Shell Distributor, please call 1+800-332-6457 for all of your service needs. All other customers please call 1+800-237-8645 for all of your service needs.

### Protect the Environment

Do not discharge into drains, soil, or water.

## Typical Physical Characteristics

Shell RETINAX® Grease	CMX 1	CMX 2
<b>NLGI Consistency</b>	1	2
<b>Color</b>	Dark gray	Dark gray
<b>Soap Type</b>	Lithium Complex	Lithium Complex
<b>Base Oil (type)</b>	Mineral	Mineral
<b>Kinematic Viscosity</b> @ 40°C cSt @ 100°C cSt (ASTM D445)	320 25	320 25
<b>Cone Penetration</b> Worked @ 25°C 0.1 mm (ASTM D217)	310-340	265-295
<b>Dropping Point</b> °C (ASTM D2265)	240	240
<b>Four-Ball EP</b> Weld Point kgf (ASTM D2596)	400	400
<b>Four-Ball Wear</b> mm 1 hr @ 75°C/40 kgf/1200 rpm (ASTM D2266)	0.5	0.5
<b>Rust Test</b> Distilled Water (ASTM D 1743)	Pass	Pass
<b>Copper Corrosion</b> (ASTM D4048)	1b	1b

*These characteristics are typical of current production. While future production will conform to Shell specifications, variation in these characteristics may occur.*