



Crater[®] Fluids M & H

Industrial Open Gear, Chain & Wire Rope Lubricants

Black, adhesive, residual oil based lubricants recommended for a range of industrial applications where an easily applied, low cost, heavy lubricating oil is required. Compounded to provide improved water resistance, water displacement and rust protection and diluted with a high flash point solvent to allow easier application.

APPLICATIONS

- Wire ropes
- Open gears (e.g., mining, quarrying, construction and dredging equipment)
- Chains and sprockets
- Flexible couplings
- Sliding surfaces (e.g., drag lines and shovels)

Suitable for application by brushing, swabbing, dipping, spraying, drip cup or spout type can. Spray application may be by conventional drum pump and spray nozzle equipment designed for fluid lubricants and greases.

GRADE SELECTION

Selection of the appropriate grade depends on the severity of the application and the operating temperature. Grade H has the highest film strength for severe-duty service or where operating temperatures are high.

PERFORMANCE STANDARDS

- ANSI/AGMA 9005-D94: AGMA Lubricant No. 15R (Crater Fluid H)

ENVIRONMENT, HEALTH and SAFETY

Information is available on this product in the Caltex Material Safety Data Sheet (MSDS) and Caltex Customer Safety Guide. Customers are encouraged to review this information, follow precautions and comply with laws and regulations concerning product use and disposal. To obtain a MSDS for this product, visit www.caltexoils.com.

BENEFITS

- ✦ **Long equipment life**
High load carrying capacity and adhesive properties of the residual base oil ensures that a tough, durable lubricating film is maintained on exposed gears and surfaces to protect against wear under adverse conditions.
- ✦ **Protects surfaces against the elements**
Tenacious lubricant coating protects exposed metal surfaces against the elements. The special compounding components provide additional rust protection by resisting water wash out.
- ✦ **Quiet operation of gears**
Highly cohesive lubricant coating remains pliable and effectively cushions gears and contacting surfaces.
- ✦ **Easily and safely applied**
High flash point, chlorine-free solvent allows product to be sprayed through automatic spray nozzle equipment, or applied by dipping, brushing or swabbing, leaving a viscous adhesive oil film after evaporation of the solvent.

KEY PROPERTIES

Grade	M	H
Timken OK Load, kg	18	18
Pour Point, °C	4	4
Viscosity, diluted, mm ² /s @ 50°C	820	1700
Viscosity, undiluted, mm ² /s @ 100°C	420	985

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SERVICE CONSIDERATIONS

Crater Fluids M and H were developed to provide the benefit of heavy oil lubricants, but with easier application characteristics. They are viscous materials thinned by a high flash point, chlorine-free solvent to permit application by brushing, swabbing, dipping, spraying, drip cup or spout type can. The high flash point solvent evaporates after application, leaving a very viscous, tenacious oil film. However, caution should be exercised when considering these products for applications exposed to open flame or spark sources (kilns, etc.).

Crater Fluids M and H are sprayable using conventional drum pump and spray nozzle equipment designed for fluid lubricant and grease. If changing from a residual oil based product which contained a chlorinated solvent, check spray equipment pipe and nozzle sizes. Crater Fluids M and H may have a different viscosity compared to "equivalent" residual oil based lubricants which contained chlorinated solvents.

Application frequency, duration, spray nozzle pattern and gear tooth coverage must be determined by the equipment operator in order to minimize wear. Large open gear tooth wear is not only affected by the lubricant but is also strongly dependent upon proper gear tooth alignment. Proper alignment must be maintained in order to realize maximum gear life.

It is preferable to have gears clean before Crater Fluid is applied for the first time. If this is not possible, then several applications may be necessary to clean off the former lubricant and provide a proper film of Crater.