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# PRODUCT INFORMATION

A PRODUCT OF AMERICAN CHEMICAL TECHNOLOGIES, INC.

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## DuraLife 460M

### *CSC Moly Grease*

#### **DESCRIPTION:**

DuraLife 460M is high performance extreme pressure grease that features a number of distinct advantages as compared to conventional greases. The calcium sulfonate complex thickener produces excellent water resistance and a wider temperature range. DuraLife 460M uses a Super HD base oil formula consisting of a custom blend of ISO 575 base oil and ISO 220 base oils, which together yield finished ISO 460 base oil. This blend results in amplified structural and thermal stability. This product is then fortified with 3% molybdenum for extra protection against heavy loads and extreme pressures. This product makes an excellent choice for any heavy duty industry or off road construction and mining application that faces heavy loads and water washout.

The Super HD base oil also contains multiple types of viscosity index improvers, which increase the greases “body” and “tackiness” properties. This premium base oil preparation process coupled with EP and anti-wear additives produce a high load carrying ability and reduce wear. DuraLife 460M is ideal for applications where lubricants are subjected to extreme heat, hot water, or steam. Polymers improve water resistance and adhesion making DuraLife 460M superior in areas where water impinges on bearings as in steel rolling mills, paper machines, or marble cutting operations.

DuraLife 460M features exceptional structural stability, excellent resistance to water and performance in the presence of water. It also offers extremely effective high temperature performance as well as excellent extreme pressure properties and heavy load carrying capabilities. Many operators have discovered that this unique ability of DuraLife 460M to resist washout and squeeze out allows it to significantly extend re-lubrication intervals, reducing grease usage and labor. DuraLife 460M is exceptionally high performance grease with a high degree of versatility. It has proven to reduce wear, extend equipment life, lower maintenance cost and reduce inventories.

# DuraLife 460M

DuraLife 460M can be used at a wide range of temperatures. Its viscous consistency not only serves to resist impact and washout, but also creates a protective “collar” to keep out dust, dirt, and other contaminants. DuraLife 460M is recommended for a multitude of applications where water washout or “pounding out” causes frequent re-greasing. It is ideal for many industrial hot and/or wet applications including heavy duty equipment chassis and wheel bearings as well as industrial applications in paper mills, cement plants, mining or rock crushing, metal foundries, chemical manufacturing facilities, plastics plants, sawmills, wastewater treatment plants, and steel mills.

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## **LABORATORY DATA:**

	Test Method	DL450M
NLGI Grade	ASTM D217	2
Thickener Type		Calcium Sulfonate
Color		Grey
Base Oil Viscosity @ 40°C	ASTM D445	460 cSt
Dropping Point	ASTM D2265	600 °F
Worked Penetration @ 25°C	ASTM D217	285
Change after 100,000 strokes	ASTM D217	+20
Oil Separation, 25°C, 24 hrs	ASTM D1742	0%
Four Ball Weld, Load	ASTM D2783	800 kg
Timken OK Load	ASTM D2509	70 lbs
Wear scar diameter	ASTM D2266	0.40 mm
Water Washout, wt % loss @ 175°F	ASTM D1264	1.50 (MAX)
Water Spray Off	ASTMD4049	7.2% (MAX)
Wheel Bearing Leakage	ASTM D1263	0.4gm
Rust Test	ASTM D1763	Pass
Oxidation Stability, psi drop 100 hrs	ASTM D942	1.5

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The traditional explanation for grease has been to picture it as a sponge soaked in oil. The thickener or soap acts as the sponge while the oil performs the task of lubricating.

Now for the first time we have a thickener (sponge) which actually contributes to the grease lubricating actions. Calcium sulfonates have been used for decades as performance additive in engine and gear oils.

Calcium sulfonate provides the grease with extreme pressure properties, corrosion protection, and water resistance. Calcium sulfonate is not used as an “additive” in the grease . . . IT IS THE GREASE. This provides the grease with amplified and exceptional inherent properties without the need for additional additives – this is a factor that ensures long grease life and stability while offering unmatched superior performance.

So a calcium sulfonate thickener allied with superior quality Super HD (heavy duty) base oils provides unmatched high performing engineered grease.