

# MULTI CSM 2

## High Performance Calcium Sulfonate Complex Grease

The MULTI CSM 2 grease is a heavy duty universal calcium sulfonate complex grease containing molybdenum disulphide that can be used in a wide range of marine, industrial, mining and automotive applications. The functional soap gives the product excellent load carrying capacity, making it suitable for heavily loaded applications. The grease also has superb mechanical stability, good corrosion protection and water resistance.

The extreme load carrying capacity and the excellent water resistance make the product a perfect choice for heavily loaded applications in hot or wet and corrosive environments. The molybdenum disulphide provides extra protection in applications with slow moving or oscillating bearings.

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## Benefits

- Excellent load carrying capacity
- Excellent mechanical stability and resistance to softening ensures long lubricant life and prevents leak out of bearings even in the presence of water
- Excellent corrosion protection and resistance to water washout resulting in improved component protection and equipment life
- Good adhesive property ensures that the grease stays in place for longer re-lubrication intervals
- High dropping point

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## Applications

- Heavy-duty equipments used in marine, off-shore, cement, mining / quarrying, agriculture & forestry/ logging, off highway and other industrial as well as automotive applications under severe conditions
- General lubrication of axles, ball joints, universal joints, couplings, power take-offs, king pins, bushings...
- Lubricating greases with molybdenum disulphide are not suitable for rolling bearings at high speed

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# Specifications

### MULTI CSM 2

Typical properties		
Test parameters	Method	
Soap Thickener	-	Calcium Sulfonate complex
Color	-	Black
NLGI Grade	ASTM D 217	2
Temperature Range of use, °C		- 20 to +140 (max +180)
Base Oils viscosity @ 40°C, cSt	ASTM D 7152	390
Base Oils viscosity @ 100°C, cSt	ASTM D 7152	24
Dropping Point, °C	IP 396	>280
Penetration 60 strokes	ISO 2137	265 - 295
Emcor salt water	ISO 11007	≤ 2 - 2
Water resistance at 90°C	DIN 51 807:1	1
Water wash out at 79°C	ISO 11009	< 10%
Water spray off	ASTM D 4049	40%
4 ball, weld load, kgf	ASTM D 2596	> 620
Flow pressure at -20 °C, mbar	DIN 51805 mod	< 1400
SKF R2F B at 140 °C	SKF	Pass
Density, kg/m <sup>3</sup>	IP 530	1000

ISO 12924: L-XB(F)DIB2

DIN 51502: KFP2N-20

Above characteristics are mean values given as information. They do not constitute a specification.

## Health and safety

This lubricant is unlikely to produce any significant health or safety hazard when used in the application it has been designed for and according to the recommendations provided in the Material Safety Data Sheet. MSDS are available upon request through your sales advisor.

When disposing of used oil, please observe all current regulations and protect the environment.