



## DURALIFE® CALCIUM SULFONATE COMPLEX GREASE CSG

**DURALIFE® CALCIUM SULFONATE COMPLEX GREASE CSG** is manufactured from highly refined petroleum oils with Calcium Sulfonate complex thickener , EP/AW additives , rust and corrosion inhibitors. It is multipurpose , high dropping point grease with good water resistance, mechanical stability and pump-ability making them very suitable for grease dispensing systems.

This product offers the additional advantage of superior adhesion to wet steel surfaces, resistance to water wash-off, and superior rust and corrosion protection. Especially effective for inverted or high pH mud.

This product also has a good selection for applications where extreme pressure, high-speed or multiple services are required.

### APPLICATIONS :

**DURALIFE® CALCIUM SULFONATE COMPLEX GREASE CSG** is suitable for most marine applications such as bearings, wire ropes, open gears found usually in marine environments and suitable for automotive, mining, construction, steel mills , paper industry, concrete , quarries and all other industrial applications such as wheel bearings, fifth wheel ,steering systems,chassis , conveyors ,anti-friction bearings, plain bearing , roller bearings , etc.

### BENEFITS :

- Excellent extreme pressure properties to provide additional protection against seizing and galling and load-carrying ability for equipment protection under heavy and shock loading.
- Excellent protection against corrosion.
- High resistance to sea water wash off.
- Minimizes leakage from bearings and stays in place on high-speed machinery through outstanding adhesion properties under severe high temperature conditions.
- Long operational life at high temperature.

### TYPICAL CHARACTERISTICS :

Product Specifications	Typical Results			
	CSG 0	CSG 1	CSG 2	CSG 3
NLGI Grade	0	1	2	3
Thickener type	Calcium Sulfonate complex	Calcium Sulfonate complex	Calcium Sulfonate complex	Calcium Sulfonate complex
Texture	Smooth	Smooth	Smooth	Smooth
Color, Visual	Green	Light Brown	Light Brown	Light Brown
Dropping point , °C (°F) , ASTM D 2265	227(440)	300(572)	300(572)	300(572)
Timken OK Load, lbs , ASTM D 2509	60	> 65	> 65	> 65
Penetration @25 °C(77°F) , Worked (60 Strokes),0.1mm, ASTM D 217	355-385	310-340	265-295	220-250
4-Ball Wear ,mm , 1hr ,75 °C ,1200 rpm,40Kgf ,ASTM D 2266	0.6	0.6	0.6	0.6
4-Ball EP , Load Wear Index (LWI) ,Kgf, ASTM D 2596	50	50	50	50
4- Ball EP , Weld point ,Kgf , ASTM D 2596	500	500	630	630
Rust Protection , ASTM D 1743	Pass	Pass	Pass	Pass
Copper Corrosion ,ASTM D 4048	1b	1b	1b	1b
Oil Separation ,wt%, ASTM D 1742	< 1.50	0.90	0.50	0.25
Oxidation Stability @210 °F , psi Drop 100 hrs Max , ASTM D 942	2.0	2.0	2.0	2.0
Water Washout @ 175°F ,%wt loss , ASTM D 1264	2.0	2.3	1.3	1.0
Leakage Tendencies of Automotive Wheel Bearing Grease, gram, ASTMD 1263	4	4	4	4
Operating Temperature Ranges :				
Minimum, °C (°F)	-25(-13)	-20(-4)	-20(-4)	-20(-4)
Maximum Continuous Service, °C (°F)	150 (302)	200 (392)	200 (392)	200 (392)

*The above characteristics are average values based on recent production .Minor variations  
which do not affect product performance are to be expected in normal manufacture .*

**WARNING!**

Contains petroleum distillates. Contact with skin or eyes can cause irritation. Avoid prolonged contact. Wash thoroughly after handling. Avoid breathing vapors . If irritation , headache or nausea occurs , remove to fresh air . Get medical attention if symptoms persists. If swallowed , do not induce vomiting. Consult physician immediately.

Keep away from children. Do not store above 120°F. Keep away from heat or flame.

*Reference MSDS Number 12053 database on our website at [www.amtecol.com](http://www.amtecol.com)*