



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 :

NLGI Grade	Typical Results		
	CSG 0	CSG 1	CSG 2
	0	1	2
Thickener type	Calcium Sulfonate complex	Calcium Sulfonate complex	Calcium Sulfonate complex
Texture	Smooth	Smooth	Smooth
Color, Visual	Green	Light Brown	Light Brown
Dropping point , °C (°F) , ASTM D 2265	227(440)	232(450)	288(550)
Timken OK Load, lbs , ASTM D 2509	60	> 65	> 65
Penetration @25 °C(77°F) , Worked (60 Strokes),0.1mm, ASTM D 217	355-385	310-340	265-295
4-Ball Wear, mm, 1hr ,75 °C,1200rpm, 40Kgf ,ASTM D 2266	0.6	0.6	0.6
4-Ball EP , Load Wear Index (LWI) ,Kgf, ASTM D 2596	-	-	65
4- Ball EP , Weld point ,Kgf , ASTM D 2596	500	500	620
Rust Protection , ASTM D 1743	Pass	Pass	Pass
Copper Corrosion ,ASTM D 4048	1b	1b	1b
Oil Separation ,wt%, ASTM D 1742	< 1.50	0.90	0.50
Oxidation Stability @210 °F , psi Drop 100 hrs Max , ASTM D 942	2.0	2.0	2.0
Water Washout @ 175°F ,%wt loss , ASTM D 1264	2.0	2.3	1.3
Leakage Tendencies of Automotive Wheel Bearing Grease, gram, ASTM D 1263	4	4	4
Operating Temperature Ranges :			
Minimum, °C (°F)	-25(-13)	-20(-4)	-20(-4)
Maximum Continuous Service, , °C (°F)	150 (302)	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