



## PRODUCT BULLETIN

# Ultra580 Synthetic EP Grease

PRODUCT #237, 238, 267

**CAM2 ULTRA580 Synthetic EP Grease** is a premium quality greases formulated with advanced calcium sulfonate thickener technology. The calcium sulfonate thickener in the Ultra580 products represents a significant advance in grease formulation technology. Unlike conventional soap-base thickeners (i.e. lithium, aluminum, and calcium soaps), the calcium sulfonate thickener does much more than simply impart consistency. It imparts excellent corrosion and water-resistance properties to the grease and has inherent extreme-pressure protection properties that enhance load-carrying ability. Further, the EP properties derived from the calcium thickener also have inherently better thermal stability than those from conventional Sulphur/Phosphorus EP additives.

**CAM2 Ultra580 EPs** unique formula combines a synthetic soap with High VI petroleum oil to enhance oxidation resistance for long life, reducing equipment downtime. The inherent extreme pressure and anti-wear properties of calcium sulfonate grease provide excellent heavy-duty protection in automotive and off-road applications such as wheel bearings where it exceeds NLGI GC-LB requirements.

**Ultra580 EP** is available in 3 grades to satisfy most solid lubrication requirements in the industrial, automotive, and marine sectors.

- **Ultra580 EP#1** contains a high VI base oil to provide extended service protection in heavy-duty and automotive wheel bearings
- **Ultra580 EP#2** is ideal for situation where water-washout is of concern or anywhere a thicker grease is needed. Exceeds Marine grade water washout specifications
- **Ultra580 EP#2 with 5% Molybdenum Disulfide** particularly well suited to meet the demanding lubrication requirements of heavy-duty truck chassis, construction and mining equipment, and heavily load industrial bearings.

## SPECIFICATIONS

**Soap type:** Calcium Sulfonate

**NLGI grade:** GC/LB

**Color:** Green(EP#1 & 2); Grey(EP#2 w Moly)

**Texture:** Smooth, buttery

Historically, CS (Calcium Sulfonate) greases have found widespread use in the marine industry due to their excellent water washout and spray off capabilities, but have found more widespread use in recent years taking advantage of advances in technology. Today, CS greases are relied upon in critical applications such as steel manufacturing, off-highway equipment, nuclear power plants, food machinery, and automotive lubrication. For years, Lithium Complex thickened grease has been recommended for many of these applications based on its inherently high dropping point and load carrying ability. CAM2's manufacturing process yields CS grease which outperform LiComplex grease in areas such as dropping point (operating temperature range), oxidation (expected operating life), shear and mechanical stability (mechanical stability), load carrying ability (wear protection), and water washout allowing the grease to "hold up" better under stress for longer periods of time.

## FEATURES

- **Wide temperature range**
- **High dropping point**
- **Excellent EP and AW protection with less additive**
- **Very shear stable**
- **Outstanding rust and corrosion protection**
- **Oxidation resistant**
- **Excellent water resistance**
- **Compatible with most other thickeners**
- **Natural tackiness for enhanced adhesiveness**
- **Robust lubricating and sealing capacity**
- **Good vapor resistance**

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## APPLICATIONS

Ultra580 is highly recommended for heavily loaded applications or environments highly contaminated with water. Specific examples include:

- Applications calling for a grease meeting NLGI GC-LB specifications
- Industrial and automotive equipment operating at high temperatures and exposed to water contamination, high humidity or corrosive environmental conditions
- Chassis parts and wheel bearings on heavy-duty and fleet equipment
- Marine equipment, heavy mobile equipment and cables exposed to salt water
- Paper machine wet- and dry- end bearings and hot calendar stacks
- Rolling mills, hot roll tables, continuous casters, ingot buggies and slab mills
- Steel mill roller bearings, conveyors and gears
- Centralized lube systems and auto lubbers in service shops

TECHNICAL DATA	ASTM Method	EP#1	EP#2	EP#2 w Moly
NLGI Classification		GC/LB	GC/LB	GC/LB
Penetration @77°F				
Unworked	D217	322	276	276
Worked 60 Strokes	D217	325	279	279
Worked 10,000 Strokes	D217	338	284	284
Worked 100,000 Strokes	D217	349	287	287
Dropping Point °C, (°F)	D2265	300/573	314/597	314/597
Four Ball Wear Scar Diameter, mm	D2266	0.54	0.45	0.38
Four Ball Load Wear Index	D2596	90	101	101
Four Ball Weld Point, Kgf	D2596	850	1000+	1000+
Timken OK Load, Lbs.	D2509	65	70	70
Rust Prevention Rating, Salt Water	D1743	Pass	Pass	Pass
Rust Prevention Rating, DI Water	D1742	Pass	Pass	Pass
Water Washout @ 175°F, %	D1264	6	3	2
Base Oil				
Viscosity @ 40°C, cSt	D445	170	170	170

Contact your CAM2 representative or CAM2 distributor for additional information.

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