

## Product Description

D-A **ThermoPlex**™ is a calcium sulfonate complex grease that offers superior high temperature lubrication coupled with outstanding mechanical stability for minimized grease run out. D-A **ThermoPlex**™ also provides extremely high load carrying capacity, optimized control of rust and corrosion, excellent water resistance and superior protection against heavy shock loads and severe equipment operation.

D-A **ThermoPlex**™ is proven in the toughest high temperature applications including brick kilns, steel mills, asphalt plant equipment and wheel bearings associated with disc brakes. D-A **ThermoPlex**™ is excellent for high temperature bearing applications as well as shaker screens, cone crushers, conveyors, loaders, trucks and many other applications.

D-A **ThermoPlex**™ provides truly versatile, multipurpose and superior performance in high temperature service as well as in general equipment lubrication.

## Product Features and Benefits

Dropping point of over 500°F for extreme high temperature applications.

This is not a clay thickened grease so it will stay on-the-job without leaving abrasive residue.

Excellent mechanical stability in heavy duty service resists grease breakdown and run-out in high and low temperature applications.

Specially selected anti-wear compounds provide wear control and reduce friction.

Rust and corrosion preventatives protect both ferrous and non-ferrous metals in damp or corrosive environments.

Excellent EP (extreme pressure) protection properties increase component life.

Combination of base oils, thickeners and additives provide a superb high temperature grease that also exhibits excellent low temperature pumpability.

## Typical Applications

### High Temperature Service

Asphalt Plants  
 Brick and Block Kilns  
 Cement Plants  
 Disc Brake Wheel Bearing Assemblies  
 Hammers and Pile Drivers  
 Paving Equipment  
 Steel Mill Applications

### General Lubrication

Construction Equipment  
 Industrial Gear and Bearing Sets  
 Logging Machinery  
 Mining Equipment  
 Pit and Quarry Equipment  
 Truck Chassis  
 Heavy Water Environments  
 Highly Corrosive Environments

High Loads, Humidity, and Temperature  
 Marine and Off-Shore Drilling Rigs  
 Wet and Dry Ends of Paper Machines  
 Marine Trailer Wheel Bearings

## Typical Properties

NLGI Grade	ASTM D217	#1	#2
Thickener Type	ASTM D128	Calcium Sulfonate	
Color	Visual	Tan	Tan
Usable Operating Temperature Range, °F (°C)		-4 to 302 (-20 to 150)	-4 to 302 (-20 to 150)
Worked Penetration @ 77°F	ASTM D217	310-340	265-295
Base Oil Viscosity @ 40°C	ASTM D445	460	460
Viscosity Index	ASTM D2270	95	95
Dropping Point, °F (°C)	ASTM D2265	500 (260)	500 (260)
Four Ball EP, Weld Load kgf	ASTM D2596	620	620
Four Ball Wear, Scar Dia., mm	ASTM D2266	0.5	0.5
Timken OK Load	ASTM D2509	60	60
Water Wash-Out, % Loss	ASTM D1264	5	3
Water Spray-Off, % Loss	ASTM D4049	55	35
Copper Corrosion Test	ASTM D4048	1b	1b
Bearing Rust Test	ASTM D1743	Pass	Pass
U.S. Steel Mobility, gm/min @ 0°F	USS LT-37	8	4
U.S. Steel Mobility, gm/min @ 20°F	USS LT-37	30	16
U.S. Steel Mobility, gm/min @ 60°F	USS LT-37	201	87
Molybdenum Disulfide, wt. %	ASTM D128	Nil	Nil

### D-A Part Number:

Bulk	N/A	12871
Drum – 400 lb	12862	12872
Qtr Drum – 120 lb	12866	12876
Pail (Metal) – 35 lb	N/A	12879
Cartridges – 43 lb	12867T	12877T