

# ThermoPlex 3™



## Product Description

D-A **ThermoPlex 3™** 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 3™** also provides extremely high load carrying capacity, optimized control of rust and corrosion, excellent water resistance and solid protection against heavy shock loads and severe equipment operation. D-A **ThermoPlex 3™** contains 3% molybdenum disulfide (Moly).

D-A **ThermoPlex 3™** is proven in the toughest high temperature applications including brick kilns and asphalt plant equipment. With bearing temperatures up to 475° F, D-A **ThermoPlex 3™** performed while other complex and polyurea greases failed. Other field testing in shaker screens, cone crushers, conveyors, loaders, trucks, etc. illustrated that D-A **ThermoPlex 3™** is truly a versatile multipurpose grease with superior performance in general equipment lubrication as well as in high temperature service.

## Product Features and Benefits

Dropping point of over 500°F for tough 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.

Molybdenum disulfide (Moly) provides wear control and reduces 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 high viscosity-high VI base oils/polymer mix resists thinning in high temperature service to maximize lubricant protection over a broad temperature range.

## Typical Applications

### High Temperature Service

Cement Plants  
 Brick and Block Kilns  
 Asphalt Plants  
 Paving Equipment  
 Hammers and Pile Drivers

### General Lubrication

Construction Equipment  
 Logging Machinery  
 Mining Equipment  
 Truck Chassis  
 Industrial Gear sets  
 Pit and Quarry Equipment

## Typical Properties

NLGI Grade	ASTM D217	#1	#2
Thickener Type	ASTM D128	Calcium Sulfonate Complex	
Color	Visual	Dark Grey	Dark Grey
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	0.55	0.55
Timken OK Load, lbs	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	7	3
U.S. Steel Mobility, gm/min @ 20°F	USS LT-37	27	14
U.S. Steel Mobility, gm/min @ 60°F	USS LT-37	199	85
Molybdenum Disulfide, wt. %	ASTM D128	3	3

### D-A Part Number:

Drum – 400 lb	12312	12322
Qtr Drum – 120 lb	N/A	12326
Pail (Metal) – 35 lb	12319	12329
Cartridge – 43 lb	12317T	12327T