

# ThermoPlex 5™



## Product Description

D-A **ThermoPlex 5™** is a calcium sulfonate complex grease designed specifically for use in high load and high speed applications with elevated ambient and operating temperatures. D-A **ThermoPlex 5™** offers outstanding mechanical stability for minimized grease run out. D-A **ThermoPlex 5™** also resists rust and oxidation, has excellent water/salt water resistance and solid protection against heavy shock loads and severe equipment operation. It will not corrode or damage steel, copper bearing alloys or conventional seal materials. D-A **ThermoPlex 5™** contains 5% molybdenum disulfide (Moly).

D-A **ThermoPlex 5™** offers a low environmental risk because it is formulated to use no lead, antimony, zinc, barium, chlorine, phosphorus or free sulfur. D-A **ThermoPlex 5™** shows superior performance in general equipment lubrication as well as in high temperature service.

## Product Features and Benefits

Dropping point of 500°F for tough high temperature applications.

Excellent mechanical stability in high load service resists grease breakdown and run-out in both 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. Resists washout from fresh and salt water providing multi-environment applicability.

Low environmental risk because it is formulated to use no lead, antimony, zinc, barium, chlorine, phosphorus or free sulfur.

## 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  
 Applications with Extreme High Pressure and/or  
 Severe Shear or Frictional Wear.

## 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	150	150
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	ASTM D2509	60	60
Water Wash-Out, % Loss	ASTM D1264	5	3
Water Spray-Off, % Loss	ASTM D4049	60	40
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	15
Molybdenum Disulfide, wt. %	ASTM D128	5	5

### D-A Part Number:

Bulk	11751	11761
Drum – 400 lb	11752	11762
Qtr Drum – 120 lb	11756	11766
Pail (Metal) – 35 lb	11759	11769
Cartridges – 43 lb	11757T	11767T