

ALPHA 2000-HD #2

GREASE
Technical Data Sheet

LUBRICATING GREASE

PRODUCT DESCRIPTION

Alpha 2000-HD #2 is a unique lubricating grease utilizing an entirely new approach in thickener technology. Alpha 2000-HD #2 provides exceptional lubricity, thermal stability, rust protection and water washout resistance. It contains no heavy metals or other environmentally undesirable components. Alpha 2000-HD #2 is a truly outstanding multi-purpose grease. It has no significant shortcomings and is probably the closest thing to an all-purpose lubricant on the market today.

Alpha 2000-HD #2's mechanical stability surpasses conventional greases and makes it ideal for use in high load applications. The Calcium Sulfonate thickener used in this product is the only known grease thickener that can perform both actions of thickening while also providing EP, reduced wear and friction. Alpha 2000-HD #2 is outstanding multi-purpose grease. It provides exceptional lubricity, thermal stability, mechanical stability, rust protection, and water washout resistance. It's mechanical stability surpasses conventional greases and makes it ideal for use in heavy industries where heavy loads, extreme pressures, and water distress prevail.

FEATURED BENEFITS

- Outstanding protection in wet environments.
- Superb resistance to water and oxidation.
- Excellent water washout and spray-off resistance.
- High thermal stability +572°F (300°C) dropping point.
- Excellent friction protection.
- Excellent anti-wear performance.
- Outstanding protection against abrasion.
- Exceptional mechanical stability.
- Outstanding high load carrying ability.
- Excellent adhesion, will not drip or run out.
- Exceptional extreme pressure properties.
- Outstanding pumpability.

PRODUCT APPLICATION

Alpha 2000-HD #2 is recommended for any application where good lubricity, mechanical and thermal stability and rust protection are required. Operations utilizing lithium complex, calcium complex, aluminum complex or polyurea can easily be converted to Alpha 2000-HD #2 to improve costs and performance levels while lowering downtime.

Automotive

(chassis and wheel bearing grease)

Agricultural/construction

(fifth wheel, king pin and bearing grease)

Oil Drilling

Mining

Steel Mills

Marine

Industrial

(conveyor, electric motor, high temperature application, roller bearing grease)

Industrial applications under heavy load

TYPICAL PROPERTIES

NLGI Grade		2
Color		Tan
Texture		Smooth
Operating Temperature Range		14°F to 338°F (-10° to 170°C)
Penetration @ 77°F (25°C), mm/10	ASTM D 217	
Worked 60 Strokes		265-295
Worked 100,000 Strokes Penetration Change from 60 strokes		+2
Dropping Point	ASTM D 2265	572°F (300°C)
Oil Separation, 24 hours @ 77°F (25°C)	ASTM D 1742	0.17
4-Ball Wear Test, mm Scar Diameter	ASTM D 2266	0.39
4-Ball EP Weld Point, Kg	ASTM D 2596	500 Min.
4-Ball Load Wear Index, Kg	ASTM D 2596	65
Water Washout, @ 175°F (79°C), % Loss	ASTM D 1264	2.75
Timken Load Carrying Test of Grease Lbs.	ASTM B 117	65
Rust Preventative Properties of Greases	ASTM D 1743	Pass
Roll Stability, Pen	ASTM D 1831	+19
Pressure Vessel Oxidation	ASTM D 942	
Psi pressure drop - 100 hours		0
Psi pressure drop - 500 hours		2
Psi pressure drop - 1,000 hours		9
Wheel Bearing Leakage, grams, modified @325°F (162°C)	ASTM D 1263	0.40
Base Oil Characteristics	ASTM D 445	
Viscosity @ 40°C, cSt		460
Viscosity @ 100°C, cSt		30
Viscosity Index, Min		95
Pour Point	ASTM D 97	+5°F (-15°C)

PRODUCT NUMBER

CSN2805000

HEALTH AND SAFETY

For health and safety guidance, please refer to the Chemtool SDS (Safety Data Sheets).



801 W Rockton Road, Rockton, IL 61072
 Phone: 815-957-4140
 Fax: 815-624-0381
www.chemtool.com