

Hold-Firm Open Gear Grease



Hold-Firm Open Gear Grease is a heavy-duty, non-melt bentonite grease containing sub-micron molybdenum disulfide (MoS₂) for superior friction reduction and load-carrying capability. It delivers long-lasting adhesion, superior film strength, and outstanding water resistance where conventional lubricants fail to stay in place.

BENTONITE + MOLYBDENUM DISULFIDE TECHNOLOGY

Hold-Firm uses a bentonite thickener combined with sub-micron MoS₂ particles that plate out on metal surfaces, creating a solid lubricant film that dramatically reduces friction under extreme pressure. Its non-melt, tackified structure keeps it firmly in place under severe temperatures, shock loads, and contamination.

PRIMARY APPLICATIONS

Hold-Firm is engineered for exposed gear systems and heavy industrial equipment:

- Open gears and fifth wheel applications
- Steel mills, lumber mills, and cotton gins
- Heavy construction and agricultural equipment
- Commercial and large transportation vehicles
- Open winches, drag lines, and sliding surfaces

KEY BENEFITS

- Non-melt formulation performs at extreme temperatures without flowing
- 70 lb. Timken load rating for extreme shock-load protection
- Supreme tackiness — will not ‘throw off’ from open gear surfaces
- MoS₂ plates on metal surfaces for additional friction reduction
- Anti-corrosion and anti-oxidation inhibitors for lasting protection
- Resistant to water, acids, alkalies, dust, and dirt

TRUE NON-MELT FORMULATION

Hold-Firm's bentonite base substance provides inherent non-melt characteristics – it withstands extreme operating temperatures without flowing, carbonizing, or losing its protective properties, even in direct proximity to high-heat sources.

MoS₂ ENHANCED LUBRICITY

Sub-micron molybdenum disulfide particles plate out on gear tooth surfaces, creating a solid lubricant film that dramatically reduces friction and wear under extreme pressure – providing protection even when the grease film is stressed by shock loads.

EXTREME SHOCK-LOAD PROTECTION

With a 70 lb. Timken load rating and a robust EP additive system, Hold-Firm handles repeated, unpredictable shock loads common to open gear applications in steel mills, heavy construction equipment, and industrial machinery.

SUPREME ADHESION — WILL NOT THROW OFF

A tackified formulation ensures Hold-Firm stays firmly on open gear surfaces even at high operating speeds — preventing sling-off problems that waste lubricant and leave gear teeth unprotected between lubrication cycles.

OUTSTANDING CONTAMINATION RESISTANCE

Hold-Firm provides excellent resistance to water washout, acids, alkalies, dust, and dirt – protecting gear surfaces from environmental contamination in the harshest outdoor and industrial conditions.

EXTENDED LUBRICATION INTERVALS

Superior film strength, tackiness, and MoS₂ additive combine to provide longer-lasting lubrication than conventional open gear products — reducing reapplication frequency and lowering overall maintenance costs.

Typical Physical & Performance Characteristics

Property / Test Method	Result
Thickener Type	Bentonite + MoS₂
Color	Black
ASTM Penetration	250–255
ASTM Dropping Point	Non-Melt
Timken EP Load Test, lbs.	70
Water Resistance	Excellent
Acid Conditions Resistance	Excellent
HMIS Rating — Health	1
HMIS Rating — Flammability	1
HMIS Rating — Reactivity	0
Personal Protection	B

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