Ωmega®
The Ultimate Lubricant

22

OMEGA 22 "Glide Sensation+" All Purpose Grease

"Glide Sensation+" All Purpose Grease

- *Superior All-Temp, Hi-Load, Hi-EP Grease*
- *Excellent Lithium Complex Based - Lubricity Enhanced with PTFE*
- *Withstands Heavy Water Washout, Shock & Load*
- *Cost Savings - Extends Equipment Lifespan & Re-Lubrication Cycle*
- *Energy Savings - Low Starting & Running Torque*
- *Most Trusted Lubrication Solution to Extreme Operating Conditions in Corrugating / Textiles / Paper Machines & Automotive Applications*

TRUST OMEGA TO
Save Money
Enhance Performance
Extend Service Life

ITW PERFORMANCE POLYMERS & FLUIDS®
KOREA

ITW

SPECIAL FEATURES

OMEGA 22 "Glide Sensation+" All Purpose Grease is a superior-performance synthetic lithium complex base all-temp, high-load, high EP grease that significantly extends equipment lifespan and re-lubrication cycle

- **OMEGA 22** is empowered with a special grade polytetrafluoroethylene (PTFE) constituent to improve wear resistance.
- **OMEGA 22** offers tenacious protection to critical metal parts of speciality machines under extreme temperatures.
- **OMEGA 22** is specially designed to withstand high loading and severe shock loading - safeguard bearing against the harshest operations.
- **OMEGA 22** prevails against high-loading & high-impact conditions and provides unparalleled protection against "stick-slip" and bearing seizure.

OUTSTANDING PROPERTIES

OMEGA 22 is formulated with the most advanced synthetic grease base and additive package that:

- Ensures a high viscosity index for excellent film protection at high temperatures & outstanding low-temperature mobility for reliable pumpability.
- Features excellent EP (extreme pressure) and AW (antiwear) properties with its unique additives package
- Offers a high dropping point, high thermal & mechanical stability and a low rate of evaporation.

USE FOR

OMEGA 22 "Glide Sensation+" All Purpose Grease is the new generation high-temperature EP synthetic PTFE multipurpose grease that satisfies critical and specialty applications.

Engineers and Maintenance Professionals use **OMEGA 22** for versatile applications including:

- All types of ball, roller and plain bearings
- Rolling bearings in corrugating machines, extruding screw bearings in plastic injection molding machines, conveyor bearings of ovens & dryers
- Bearings in cableway and precision engineering application
- Joints, couplings, and many automotive applications
- High speed bearings in textile machines & threaded spindles
- Critical rolling element bearing applications in paper machine
- Most low-tension (LT), high-tension (HT) & heavy duty industrial motors

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DESCRIPTION:

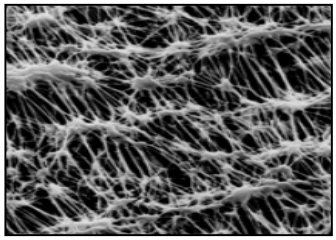
Enhanced with a higher EP additive package, the new **OMEGA 22 "Glide Sensation+" All Purpose Grease** is a superior performance NLGI 2-grade grease quality formulated with a synthetic base fluid and a special grade polytetrafluoroethylene (PTFE) constituent to ensure the most promising performance characteristics in the most punishing conditions.

PTFE additives are micronized powders that, when combined with the synthetic base fluid, enhance lubricity and reduce friction. The result is significant improvement on wear resistance. "Stick-slip" problem can virtually be eliminated.

The new OMEGA 22 provides lasting and consistent protection to metal parts under a wide range of service temperatures from -40°C to 210°C (-40°F to 410°F). While providing long service life at high and low temperatures, OMEGA 22 also stands up to high loading and severe shock loading service conditions to guard against bearing failure where ordinary greases fall short.

According to 4-Ball EP performance test (ASTM Test Method D-2596), the new OMEGA 22 achieves a weld load of 500 kgf, representing a remarkable 40% improvement in the grease's load carrying capacity!

OMEGA 22 showing smooth texture and light green color



PTFE membrane magnified by 7000 times

OMEGA 22 is available in 5 kg and 15 kg pack-sizes

ADVANCED SYNTHETIC BASE FLUID:

OMEGA 22's advanced synthetic base fluid features a high viscosity index for excellent film protection at high temperatures and superior low-temperature mobility for outstanding pumpability. Endowed with an advanced formulation including lubricity enhancer PTFE, **OMEGA 22 "Glide Sensation+" All Purpose** Grease can be trusted in the most versatile applications and under extreme operating conditions.

OMEGA 22 has a high thermal and mechanical stability and a low rate of evaporation. The intervals between re-greasing can be safely extended even at elevated temperatures. Enhanced with a unique thickening system that warrants a high dropping point, the additives package delivers optimum extreme-pressure properties and excellent resistance to water washout. The lithium complex thickener also gives excellent adhesion, structural stability and resistance to water.

The superior lubricity and enhanced EP property of OMEGA 22 provide unmatched protection against "stick-slip" and bearing seizure due to lubricant failure under high-loading and high-impact conditions.

As a superior synthetic multi-purpose grease, OMEGA 22 features low friction characteristics for the reduction of noise and driving torque. OMEGA 22 offers extra protection to metals against rust, corrosion and minimizes grease hardening due to oil oxidation in high-temperature services. OMEGA 22 provides excellent low temperature pumpability and very low starting and running torque. OMEGA 22 also offers good mechanical shear stability and a high drop point to resist leakage caused by grease softening and melting.

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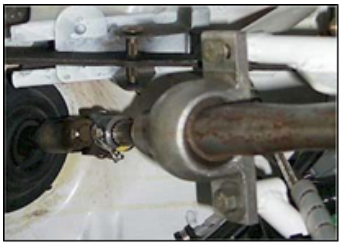
Rev. Date: 2 Jan 2019		
Reference: CKL		

TRULY VERSATILE APPLICATIONS:

OMEGA 22 "Glide Sensation^{+}" All Purpose Grease is the genuine multi-purpose lubricating solution for use in:

- All types of ball, roller and plain bearings.
- Rolling bearings in corrugating machines, extruding screw bearings in plastic injection molding machines, conveyor bearings going in and out of ovens and dryers.
- Running gear bearings.
- Long-term use for bearings in cableway and precision engineering application.
- High-speed plain and rolling bearings, e.g. spindle bearings in machine tools.
- Guides.
- Joints, e.g. steering joints and universal joints
- Couplings.
- Automotive applications.
- Disc brake wheel bearings, ball and steering joints.
- Textile machines, threaded spindles, ball screws subject to high loads.
- Severe paper machine applications including high and low temperature environments and exposure to different qualities of water.
- The most critical rolling element bearing applications in paper machines:
  - Ideal for the wet end of the paper machine bearings
  - Highly loaded press section bearings
  - High-temperature felt roll and calendar stack bearings
- Most low-tension (LT), high-tension (HT) & heavy duty industrial motor

Corrugating machine



Steering joint

Textile machine

Paper machine

Plain bearings

Spherical roller bearing

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TYPICAL DATA:

TEST	ASTM TEST METHOD	TEST RESULT
Base Fluid:-		
Viscosity, cSt @ 40°C	D-445	169.3
Viscosity, cSt @ 100°C	D-445	19.5
Viscosity Index	D-2270	132
Worked Penetration @ 25°C	D-217	275 – 305
Dropping Point, °C	D-2265	260+
Timken, OK Load, kg	D-2509	36
4-Ball EP Performance, Weld Load, kgf	D-2596	500
4-Ball Wear, 1800rpm, 1 Hour 20 kgf Scar Diameter, mm	-	0.40
Copper Corrosion Test	D-130	1b
Rust Test	D-1743	Pass
Oxidation	D-942	
PSI Loss: 100 Hours		0
PSI Loss: 300 Hours		2
PSI Loss: 500 Hours		4
Evaporation Loss @ 175°C, wt%	D-972	3.9
PTFE Content %		3.0
Texture		Smooth
Thickener		Lithium Complex
NLGI Grade	D-217	#2
Operating Temperature Range, °C		-40 to +210
Color		Light green

The characteristics given above are typical of current production only and slight batch to batch variations should be expected.

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