66

Omega
The Ultimate Lubricant

DESCRIPTION:

Omega 66 is an ultra-low temperature lubricant with outstanding benefits for both military and high technology industrial applications.

WILL NOT HARDEN:

Omega 66 will not congeal or harden during severe freeze-ups. It retains its NLGI 2 rating even at the lowest temperatures. This aspect ensures moving parts are protected and lubricated at all times and especially at start-up in moderate to cold climates. Ordinary lubricants harden and form energy consuming ‘drag' on moving parts.

CENTRALIZED SYSTEMS:

Omega 66 works well in centralized lubrication systems and remains stable, regardless of temperature fluctuations.

HIGH LUBRICITY:

Omega 66 has a smooth, soft texture and forms the essential hydrodynamic "liquid-wedge" between frictional surfaces. It promotes efficient operation and lessens wear and tear.

WATER-RESISTANT:

Omega 66 is water and waterwash resistant. It also resists the tendencies found in ordinary greases to form rust-prone areas where melting snow or ice contract metal surfaces and lift away the protecting grease coating. Omega 66 remains in place and protects all applied surfaces. Similarly, in high speed bearings, the tenacity of Omega 66 ensures applied surfaces remain protected and lubricated despite centrifugal forces which fling off ordinary greases.

SPECIAL SUPPLEMENTS:

Omega 66 contains, among other materials -a formation of dibasic esters and polyphenyl ethers in conjunction with fine micronized silica. This highly developed combination provides the essential 'twin-end' temperature stability desirable in low temperature applications. Ordinary greases become solid at low temperatures and form hard, abrasive ‘flows' that claw the metal surface. This results in severe wear and rapid seizure. In ultra-cold climates, equipment failure is not only hazardous to life, but is also extremely difficult to rectify.

Omega 66 is also specially suited to bearing applications due to its good "stay put" qualities. It is suitable for most high speed bearings, for example, a 10mm (internal diameter) bearing set operating at 25,000 to 30,000 rpm. or a 20mm bearing at 12,500-15,000 rpm or even a 30mm bearing operating at 8,500 to 10,000 rpm.

Omega 66 meets Military Specification: MIL-G-10924D (Qualification of military specification documented under code M 7628).

NOTE:

Omega 66 is the lubricant preferred by nearly every efficient military or other quality/efficiency conscious organization in the world. Its super high performance and wide operating temperature range, plus its relatively high flash point provide essentially superior performance in all types of equipment and especially medium to high speed bearings, such as electric motors and automated or robotics equipment and machinery

OPIM66-1	Ver. 2.0	Rev. 5.0
Rev. Date: 29 February 2024		
Reference: CKL		

TYPICAL DATA:

TEST	ASTM TEST METHOD	TEST RESULT
Mineral Oil Base: -		
Viscosity @ 40ºC, cSt	D-445	21.5
Viscosity @ 100ºC, cSt	D-445	3.7
Flash Point, COC, °C (°F)	D-92	154(310)
Pour Point, °C (°F)	D-97	-54(-65)
Drop Point, °C (°F)	D-566	143(290)
Worked Penetration @77°F, 150 gm cone	D-217	265-295
Oxidation Stability, P.S.I. drop in 100 hrs.	D-942	3.0
Water Washout, % loss after 2 hrs. @175°F	D-1264	#1 rating
Corrosion Resistance	D-1261	Pass
Differential Thermal Analysis @55°C	D-1837	Stable
Low Temperature Torque, -54°C, g-cm	D-1478	
Start		6,785
60 minutes		1,032
Wheel Bearing	GM-9048	Excellent
NLGI Grade	-	#2
Operating Temperature Range, °C (°F)	-	-54 to 121 (-65 to 250)
Color		Blue Sparkle