

# Omega 35

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## DESCRIPTION:

Omega 35 is a highly-specialized High Temperature Stable grease that has been engineered to continue lubricating applied parts at temperatures where ordinary greases "carbonize" and form abrasives that damage equipment. It consists of a synthetic, non-ash base or "carrier" agent, into which a high concentration of super-micronized, infinitesimal fine-mesh, lubricant-grade Megalite Solid Lubricant (MSL) is suspended.

## OPERATING PRINCIPLE:

Omega 35 features a highly unique lubricating principle. Its finely-balanced proportion of synthetic carrier and micronized MSL gives it good penetration power, good "spreadability" and enhanced lubricating qualities.

The synthetic is designed merely to be the "carrier" of the solid lubricant, to enable the latter to be introduced into the part(s) to be lubricated. Once the operating temperature increases to the volatilization range of the synthetic "carrier", it flashes off and leaves the super-fine, Megalite Solid Lubricant (MSL) in place. The MSL remains and continues to provide unparalleled anti-friction lubrication performance to the applied parts.

## IN-BUILT SUPERIORITY:

Omega 35's MSL provides many advantages over ordinary high temperature solid lubricants, such as molybdenum disulphide (commonly called "moly"). Moly does have high temperature qualities in the region of 700°C, but at such temperatures oxidize to form hard, abrasive residues that can damage equipment.

**PERFECT FOR "SEARING TEMPERATURE" APPLICATIONS:**

Omega 35 is engineered as a general-purpose grease for virtually every type of application where exceptionally high heat is unavoidable. Some examples, include:

OVEN CARS

BRICK KILN CARS

STEEL MILLS

BAKING & COOKING OVENS

FOUNDRIES...and all slow-moving, high temperature applications.

**TYPICAL DATA:**

TEST	ASTM TEST METHOD	TEST RESULT
Base Fluid: -		
Viscosity @ 40°C (104°F)cSt	D-445	35
Viscosity @ 100°C (212°F)cSt	D-445	6
Viscosity Index	D-2270	116
Pour Point, °C (°F)	D-97	-8 to -15 (17.6 to 4)
Flash Point, °C (°F)	D-92	196(385)
4-ball EP weld point, kgf	D-2596	620
4-ball wear scar, mm	D-2266	0.8
Worked Penetration @ 77°F, 150gm cone	D-217	270-310
Specific Gravity @ 15°C (60°F)	D-1298	1.33
Dropping Point °C (°F)	D-566	260(500)+
Texture		Smooth
Colour		Gray/Black
"Megalite" Solid Lubricant content		38-42%

**IMPORTANT:**

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1. Product should be thoroughly mixed with a paddle to ensure uniform consistency before applying to bearings and other parts to be lubricated.
2. The lubricated parts should be cleaned to remove the previous lubricant completely prior to applying Omega 35.
3. Avoid over-greasing with Omega 35. Otherwise, too much solid lubricant will hinder the free rotation of the bearing. For roller bearings, apply grease to fill about 25% of the housing capacity only. During regular maintenance period, dismantle bearings for cleaning and regreasing.