



Molub-Alloy™OG 9790/2500-0

Multi-service Lubricating Grease

Description

Castrol Molub-Alloy™OG 9790/2500-0 (Previously called Molub-Alloy™ 9790/2500-0) grease is a heavy-duty lubricant formulated for multi-service, all-season applications and may be used on large draglines, shovels, drills and mill applications. They may be used in the following applications under the most severe environments

- Mill & kiln open gears
- Open gears - racks & pinions - Dipper sticks - Rails & rollers
- Large journal bearings - Large slow-speed rolling bearings

Molub-Alloy OG 9790/2500-0 may be used in both, raw and finish mill operations, such as those found in coal, cement, copper and phosphate mills, and in either ball or rod mills. The greases are also especially suited for open gears in cement kilns. It offers an additional benefit to operators, by reducing the number of lubricants required for each machine and minimizing the potential for misapplication. Formulated to address environmental concerns, the lubricants are free of lead, antimony, barium and chlorinated solvents. No solvents of any kind are used. The blend of synthetic and petroleum oils are selected for their physical and chemical stability, and for their exceptional serviceability over a wide temperature range. These fluids are compounded to flow readily in the filmforming process, yet resist "squeeze out" and cling tenaciously even to gear teeth that mesh vertically.

- Molub-Alloy OG 9790/2500-0 lubricant contains solids of selected grade and size distribution which promote antiwear and load carrying properties beyond the capacity of conventional lubricants.
- The blend of synthetic and petroleum base fluids ensures excellent pumpability, even at low temperatures.
- The high base oil viscosity assures sufficient film thickness at low speeds, high loads and/or elevated temperatures

Application

- Molub-Alloy OG 9790/2500-0 may be used from - 20 °C to + 90 °C. This is a general guideline and may be changed, depending on applications and conditions.
- Particularly suitable for service in severe conditions of dust, as found in open pit mining and in the cement industry.
- May be applied either manually or with heavy duty automatic systems suitable for the NLGI grade used.

Advantages

- Superior film endurance resists erosion from rain and sleet.
- Does not harden in gear tooth roots and facilitates easy removal from semi-enclosed gear cases.
- Multi-service, may be used for open gear and bearing applications on draglines, shovels, drills, mills and kilns.
- Careful attention has been given to the needs of large roller bearings to protect against extreme pressures and shock loads, and to provide sufficient film thickness to extend bearing life.
- Reduce product inventory and minimizes the risk of contamination or misapplication.
- All-season, may be used all year-round.

Typical Characteristics

Name	Method	Unit	Molub-Alloy OG 9790/2500-0
Worked Penetration (60 strokes @ 25°C / 77°F)	ASTM D217 / ISO 2137	0.1 mm	355 - 385
Thickener type	-	-	Inorganic
Dropping Point	ASTM D566 / ISO 2176	°C/°F	>190/>374
Base Oil Viscosity @ 40°C / 104°F	ASTM D 445 / ISO 3104	mm ² /s	2500
Base Oil Viscosity @ 100°C / 212°F	ASTM D 445 / ISO 3104	mm ² /s	100
Flash Point - open cup method	ASTM D92 / ISO 2592	°C/°F	>190/>374
Water Resistance	DIN 51807-1	Rating	0
Copper Corrosion (24 hrs,100°C / 212°F)	ASTM D4048	Rating	2
Four Ball Wear test - Weld Load	DIN 51350-4A	N	5500/6000
Four Ball Wear test - Wear Scar Diameter (40 kgf / 75°C / 1200 rpm / 1 hr)	ASTM D2266 / ISO 51350	mm	0.9
Four Ball Wear test - Wear Scar Diameter (20 kgf / 75°C / 1200 rpm / 1 hr)	ASTM D2266 / ISO 51350	mm	0.9
Timken OK Load	ASTM D2509	kg/lbs	>20 / 45
Deleterious Particles	ASTM 1404	No. of scratches	<10
Flow pressure @ -10°C / 14°F	DIN 51805	mBar	<450
FZG Gear Scuffing test - A/8.3/90	ISO 14635-1	Failure Load Stage	>12

Subject to usual manufacturing tolerances.

This product was previously called Molub-Alloy 9790/2500-0. The name was changed in 2015

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