



Molub-Alloy OG 936 SF NG

Mining Open Gear Lubricant.

Description

CASTROL MOLUB-ALLOY™ OG 936 SF NG (previously named Molub-Alloy 936 SF NG) is a uniquely compounded open gear lubricant developed specifically for use on heavy duty mining equipment. It is compounded to give maximum protection to gears and slides on draglines and shovels minimising potential pollution to the environment. Formulated to address environmental concerns, CASTROL MOLUB-ALLOY™ OG 936 SF NG is free of lead, antimony, barium and chlorinated solvents. No solvents of any kind are used.

- A highly refined, viscous, paraffinic petroleum derivative is the foundation of a blended base fluid with excellent natural chemical and thermal stability.
- CASTROL MOLUB-ALLOY™ OG 936 SF NG is compounded to flow readily in the film-forming process, yet it resists "squeeze-out" and clings tenaciously to gear teeth even in vertical position.
- A proprietary blend of CASTROL MOLUB-ALLOY™ lubricating solids is included to promote antiwear and load carrying properties beyond those of conventional lubricants. The selected lubricating solids work synergistically with chemical antiwear and EP additives, to reduce friction.
- Rust and oxidation inhibitors are included in the formulation to protect the equipment and the lubricating film against the elements in severe climates.

Application

Mining applications include all types of open gears, rails and rollers, racks and pinions, dipper sticks, saddle blocks and other slides on draglines and shovels.

Advantages

- CASTROL MOLUB-ALLOY™ OG 936 SF NG is free of solvents and materials considered to be hazardous to the environment.
- CASTROL MOLUB-ALLOY™ OG 936 SF NG forms a tough, durable lubricating film with a "cushioning" effect, even under extreme pressure and at low speeds. The film resists erosion from rain or sleet and resists peeling in dusty environments.

Typical Characteristics

Name	Method	Units	Molub-Alloy OG 936 SF NG
Consistency	ASTM D217 / ISO 2137	NLGI Grade	0
Thickener type	-	-	Lithium
Worked Penetration (60 strokes @ 25°C / 77°F)	ASTM D217 / ISO 2137	0.1 mm	355-385
Dropping point	ASTM D566 / ISO 2176	°C/°F	>180/>356
Base Oil Viscosity @ 40°C / 104°F	ASTM D445 / ISO 3104	mm ² /s	2,200
Base Oil Viscosity @ 100°C / 212°F	ASTM D445 / ISO 3104	mm ² /s	77
Viscosity Index	ASTM D2270 / ISO 2909	-	91
Flash Point - open cup method	ASTM D92 / ISO 2592	°C/°F	>200/>392
Copper Corrosion (24 hrs, 100°C / 212°F)	ASTM D4048	Rating	1b
Rust Test (distilled water)	ASTM D1743	Pass	Pass
Four Ball Weld Load test - Load Wear Index	ASTM D2596 / ISO 11008	-	>120
Four Ball Weld Load test - Weld Point	ASTM D2596 / ISO 11008	kgf	>800
Timken OK Load	ASTM D2509	kg / lbs	20.5/45
Water Resistance	DIN 51807-1	Rating	0
Four Ball Wear test - Wear Scar Diameter (40 kgf / 75°C / 1200 rpm / 1 hr)	ASTM D2266 / ISO 51350	mm	0.6
Deleterious Particles	ASTM D1404	No. of scratches	<2
Flow pressure @ 0°C / 32°F	DIN 51805	psi	300
Grease Pumpability test - Lincoln Ventmeter	US Steel test method	mBar	220

Additional Information

CASTROL MOLUB-ALLOY® OG 936 SF may be applied either manually or by heavy-duty automatic systems and should pump and spray readily down to freezing temperatures.

This product was previously named Molub-Alloy 936 SF NG. The name was changed in 2015.

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