



## Product Data

# Castrol Molub-Alloy® 8031

Multi-Service Lubricants

**Castrol Molub-Alloy 8031 Multi-Service Lubricants** are NLGI 00 high viscosity base oil gel (greases) designed to lubricate heavily loaded open gears, screw type actuators, and low to moderate velocity bushings and plain and rolling element bearings equipped with centralized or sump type lubrications systems.

**Castrol Molub-Alloy 8031 Multi-Service Lubricants** are part of Castrol Performance Lubricants' Eco-Solutions™ product offering. Formulated to address environmental concerns, **Castrol Molub-Alloy 8031 Multi-Service Lubricants** are free of lead, chlorinated solvents, and barium. They contain no solvents or diluents, and meets the TCLP (Toxicity Characteristic Leaching Procedure).

This product is formulated to be readily pumpable and slumpable for good lubricant distribution in enclosed and semi-enclosed applications, and drainable for ease of removal from surrounding guards. This product is also specifically formulated to flush contaminants from gear and pinion flanks, and to resist accumulation in the roots of gear teeth.

Because of their high thixotropic properties, **Castrol Molub-Alloy 8031 Multi-Service Lubricants** may be utilized in Performance Lubricants' patented batch recirculating lubricant application systems. This allows for the economical controlled application of lubricant on a new continuous basis using existing intermittent spray hardware.

### Description

**Castrol Molub-Alloy 8031 Multi-Service Lubricants** are gel-like greases formulated with a non-soap, inorganic thickening system. They contain a high viscosity base fluid especially designed to provide extreme pressure (EP) and antiwear characteristics to the lubricant.

**Castrol Molub-Alloy 8031 Multi-Service Lubricants** contains proprietary blends of Molub-Alloy lubricating solids in combination with chemical EP additives. These react synergistically under boundary lubrication conditions to provide outstanding protection to metal surfaces.

### Usage

**Castrol Molub-Alloy 8031 Multi-Service Lubricants** are recommended for use in applications requiring anti-scuff and antiwear protection, and where no



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product buildup is desired. It is also suited for units containing bushings, bearings and/or gears where ISO 1500, 3000 or 6000 viscosity grade lubricant is required, but straight fluid lubricants leak out.

**Castrol Molub-Alloy 8031 Multi-Service Lubricants** are formulated to minimize the potential for eventual plugging of the lubricant distribution lines commonly associated with conventional greases.

### Notes

**Castrol Molub-Alloy 8031 Multi-Service Lubricants** has been tested for compatibility with various types of greases and compounds. These tests indicate that Molub-Alloy 8031 is compatible with most common greases and multi-purpose compounds. However, if **Castrol Molub-Alloy 8031 Multi-Service Lubricants** is to be mixed with another product, monitor the application for possible incompatibility after the changeover.

For specific terms, conditions, warranty, and availability, refer to Castrol Performance Lubricants' Price List in effect at time of purchase.



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### Typical Characteristics

	<u>8031/1500</u>	<u>8031/3000</u>	<u>8031/6000</u>
NLGI Grade	00	00	00
Thickener	Non-Soap, Inorganic	Non-Soap, Inorganic	Non-Soap, Inorganic
Film Appearance	Non-Soap, Inorganic	Dark and Opaque	Dark and Opaque
Unworked Penetration, ASTM D217	400-430	400-430	400-430
Base Fluid Properties:			
ISO Viscosity Grade, ASTM D2422	1500	3000	6000
Specific Gravity, ASTM D1298 @ 15.6°C/60°F	0.928-0.938	0.9408	0.937-0.947
Viscosity:			
@ 40°C, mm <sup>2</sup> /s (cSt)	1630	3000	5943
@ 100°C, mm <sup>2</sup> /s (cSt)	57.4	96	145
Flash Point, ASTM D92, COC, °C/°F	225/437	218/425	232/450
Brookfield Viscosity, Pa s (cp) Spindle No. 7, 10 rpm @ 77°F/25°C	46,000	80,000	48,000
Copper Corrosion, ASTM D4048,	1b	1b	1b
Four Ball Extreme Pressure Test, ASTM D2596:			
Load Wear Index, kg	51	88	70
Weld Load, kg	620	400	800
FZG Test, in accordance with DIN 51 354			
A/2.76/50 method, failure stage	>12	>12	>12
US Steel Timken Retention Test, 15kg/33 LB @ 30 minutes	Pass	Pass	Pass
Lincoln Ventmeter, PSI			
@ -1.1°C/30°F, psi	140	210	200
@ -6.7°C/20°F, psi	300	440	380
@ -12.2°C/10°F, psi	830	840	790
TCLP (Unused)	Pass	Pass	Pass
Castrol Molub-Alloy Solids, Grade Classification	Multit-Service	Multi-Service	Multi-Service

Subject to usual manufacturing tolerances

All reasonable care has been taken to ensure that this information is accurate as of the date of printing. Nevertheless, such information may be affected by changes in the blend formulation occurring subsequent to the date of printing. Material Safety Data Sheets are available for all Castrol products. The MSDS must be consulted for appropriate information regarding storage, safe handling and disposal of a product.