

LUBRICANTS

GREASES

YOUR ADVANTAGE IN AN INDUSTRIAL WORLD

IT'S MORE THAN JUST OIL. IT'S LIQUID ENGINEERING.



THE EXPERTS IN TECHNOLOGY

CASTROL OFFERS YOU A COMPREHENSIVE RANGE OF WORLD-CLASS GREASES AND PRODUCT SUPPORT SERVICES FULLY CAPABLE OF PROVIDING YOUR CAPITAL INTENSIVE EQUIPMENT WITH ADVANCED PROTECTION.

WE CAN HELP MAKE SURE THAT YOUR EQUIPMENT RUNS RELIABLY, EVEN IN DIFFICULT AND SOMETIMES HOSTILE ENVIRONMENTS, AND FOR LONG PERIODS OF TIME – GIVING YOU IMPROVED PRODUCTION EFFICIENCY.

OUR GOAL IS TO ACHIEVE:

- LONGER BEARING LIFE
- OPTIMUM BEARING PERFORMANCE
- EXTENDED MAINTENANCE INTERVALS
- INCREASED PRODUCTIVITY
- DECREASED MAINTENANCE COSTS
- LOWER OVERALL GREASE CONSUMPTION AND WASTE

These benefits have been made available to you through the global process and applications expertise of Castrol's network of engineering and research professionals, and are delivered to you by our knowledgeable local sales and support teams to help achieve proven performance in your manufacturing environment.

Castrol greases have been formulated using the latest raw materials and tested in both laboratory and manufacturing conditions in close co-operation with leading bearing and machinery manufacturers.

A CHOICE TO SUIT YOUR NEEDS

GREASE TYPES

The structure and the performance properties of any grease are determined by the thickener, base oil and additive systems and also by the manufacturing and packaging processes deployed.

Grease types are commonly identified in terms of the thickener/soap involved.

- Simple Soaps** Combinations of a fatty acid (derived from animal or vegetable fat) and an active metal. Lithium soap greases are the most commonly used, providing good all-round performance.
- Complex Soaps** Formed by the joint reaction of an active metal with a fatty acid and a non-fatty acid. The main advantage of complex over simple soap based greases is the ability to operate at higher temperatures.
- Non-Soaps** Primarily made up of inorganic thickeners of mineral origin and organic thickeners of polymeric nature – making them best suited for higher temperature applications:
- **Inorganic** thickeners include modified clays (bentonite), graphite, carbon black, silica gel and various metallic oxides.
 - **Organic** thickeners include polyurea, polyethylene, polypropylene, polycarbohydrates and polytetrafluoroethylene (PTFE – better known by the trade name Teflon®).

THE COMPLETE RANGE OF GREASES

WE OFFER YOU A COMPREHENSIVE RANGE OF GREASES. THIS ENABLES YOU TO CHOOSE THE BEST PRODUCT TO SUIT YOUR EXACT NEEDS FROM THE FOLLOWING CATEGORIES:

- MULTI-PURPOSE
- MULTI-PURPOSE HIGH PERFORMANCE
- HIGH TEMPERATURE
- OPEN GEAR

MULTI-PURPOSE (MP)

Our multi-purpose range of greases provide reliable performance for a wide variety of applications.

The MP range is designed for use in plain and rolling element bearings and exhibits good mechanical stability, adhesion, water resistance, copper and steel corrosion resistance and wear protection for good all round performance.

Our range of multi-purpose greases are under the 'Spheerol' name.

HIGH TEMPERATURE (HT)

Our high temperature range of greases have been designed for the most severe conditions. They are all fully synthetic and thermally stable, providing long re-lubrication intervals at maximum operational reliability.

These products have several major advantages over conventional ones, such as outstanding oxidation and thermal stability, corrosion protection, resistance to water washout, wear protection and mechanical stability.

Our range of high temperature greases are under the 'Molub-Alloy' name.

MULTI-PURPOSE HIGH PERFORMANCE (MP-HP)

Castrol's high performance greases have been developed over many years of extensive research and development. These products have gained an excellent track record in many industries and in the most severe applications, bringing you increased security and peace of mind.

Our MP-HP products have a number of key advantages over conventional ones, including excellent load carrying ability, friction reduction characteristics, mechanical stability and oxidation/thermal resistance.

*MFT (Microflux Trans additive system) and TGOA (Tribol Grease/Oil Additive system) are proprietary advanced technology additive systems.

Our range of multi-purpose high performance greases are under the 'Molub-Alloy' and 'Tribol' names.

OPEN GEAR (OG)

Castrol's open gear greases can be divided into two main types:

SEMI-DRY WORKING FILM (METALLIC SOAP)

The primary function of this type of lubricant is to act as a friction reducing interface between the meshing surfaces and to cushion against shock loads. These uniquely compounded lubricants give maximum protection to the gears and flow readily in the film forming process, yet resist 'squeeze out' and cling tenaciously to gear teeth.

The semi-dry working film allows these lubricants to be used in low to moderately dusty, dirty applications, without forming abrasive compounds.

SEMI-FLUID GEL (NON SOAP)

Our unique semi-fluid gel (thixotropic) greases are formulated with a non-soap, inorganic thickening system.

This technology (unique to Castrol) exhibits a stable form at rest, however, will still spread easily and evenly since the gel-like grease 'liquifies' when pressure is applied, carrying away both heat and contaminants. It will also resist fling off.

Our range of open gear greases are under the 'Molub-Alloy' name.

QUALITY AND RELIABILITY FROM START TO FINISH



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