PETROFOND INDUSTRIAL GREASES

Specialized lubrication solutions for industrial equipment

Industrial greases reduce friction and wear, protect moving surfaces, and help maintain dependable equipment operation. Selecting an appropriate grease requires consideration of the thickener system, base oil, consistency, operating load, temperature, and environmental conditions.

Introduction and Technical Overview

Industrial Greases: Reliable Lubrication for Moving Components

Grease is a semi-solid lubricant formulated from base oil, a thickener, and, where required, performance additives or solid lubricants. Its structure helps retain lubricant at the contact point, making it suitable for bearings, joints, and other components where continuous oil supply or frequent relubrication may be impractical.

Product Range

The Petrofond industrial grease range covered here includes the following specialized products:

PETRO CSX C SERIES — Calcium sulfonate complex grease for loaded equipment and applications where resistance to water is important.

PETRO CSX CM 460/2 — Calcium sulfonate complex grease containing MoS_2, intended for applications compatible with its technical specifications.

PETRO OGL 1000/0 — Sprayable grease designed for open gears and heavily loaded lubrication points in industrial and mining equipment.

PETRO PU 460/2 — Fully synthetic, polyurea-thickened grease for selected bearing applications requiring long-lasting lubrication.

Product Introduction

Protection Against Friction, Wear, and Mechanical Stress

Industrial equipment is exposed to changing loads, repeated surface contact, and potentially demanding environmental conditions. A correctly selected grease helps maintain a lubricating film, limit direct metal-to-metal contact, and protect components during operation. Product suitability depends on the equipment design and actual service conditions.

How It Works

The thickener holds the base oil within the grease structure and helps release lubricant into the contact zone during operation. The resulting film separates moving surfaces and reduces friction and wear. Depending on the formulation, additives or solid lubricants can provide additional protection under demanding contact conditions. Grease performance is also affected by speed, load, temperature, contamination, and relubrication practices.

Within this range, calcium sulfonate complex greases address selected heavy-load and water-exposure applications. The polyurea-based product is intended for suitable bearing lubrication, while the sprayable open-gear grease supports application to accessible, heavily loaded gear surfaces. Each product must be assessed against its own Technical Data Sheet (TDS).

Grease Types and Their Applications

Calcium sulfonate complex greases — For selected loaded components and wet operating environments, including PETRO CSX C SERIES and PETRO CSX CM 460/2.

Specialized bearing grease — For bearing applications where lubricant retention and operating temperature are important, such as PETRO PU 460/2.

Sprayable open-gear grease — For open gearing and heavy-duty lubrication points where application method and surface coverage are critical, such as PETRO OGL 1000/0.

Key Characteristics of a Suitable Industrial Grease

An industrial grease should be selected according to the equipment's operating requirements. Important evaluation criteria include:

Lubricating-film performance — The ability to provide appropriate separation of moving surfaces under expected loads and temperatures.

Suitable consistency — Compatibility with the lubrication method, component design, and operating speed.

Mechanical protection — Performance appropriate for the anticipated load, friction, and wear conditions.

Environmental resistance — Resistance to water, moisture, or contaminants where required by the application.

Material compatibility — Suitability for seals and existing lubricants, subject to technical verification.

Documented product specifications — Availability of product-specific TDS and Safety Data Sheet (SDS) information.

Why Choosing the Right Grease Matters

An unsuitable grease may contribute to increased friction, reduced lubrication effectiveness, premature wear, or maintenance difficulties. Choosing a product based on actual operating conditions and verified technical information helps protect equipment and supports more effective maintenance planning.

Before use, review the relevant product TDS and SDS and follow the equipment manufacturer's recommendations. Greases with different thickeners, base oils, or consistency grades should not be treated as automatically interchangeable.