

Chemtura's Petroleum Additives business is a leading global supplier of one of the broadest range of lubricant additive components to the lubricant and fuel industry. The products improve performance in motor oils, transmission fluids, industrial and hydraulic oils, metalworking fluids, and fuels.

Some familiar and reliable brand names include: Naugalube[®] antioxidants, Synton[®] high-viscosity polyalphaolefins (PAO), Hybase[®] and Lobase[®] detergents, Naugalube[®] friction modifiers, Calcinat[™] anti-wear additives, and Barinate[®] corrosion inhibitors.

Our extensive product line allows us to deliver specialized additives that enhance lubricant formulations to meet today's toughest technical challenges.

Whether the need is oxidation stability, detergency, corrosion inhibition, anti-wear protection, friction modification, emulsibility, or thickening, Chemtura Petroleum Additives can deliver a product that meets your specialized needs.

Our research capabilities, practical experience, reliable delivery, and dedicated laboratory and on-site support staff come together to make us a valuable business partner.

Naugalube® Antioxidants are vital components of lubricants that are incorporated in most formulations to prevent oxidative degradation due to exposure to oxygen, heat, light and metals during storage and service.

The Naugalube® antioxidant family comprises a wide range of aromatic amines, hindered phenolics and organo-phosphite, which represents one of the broadest product lines in the industry, with components suitable for various types of lubricants, including mineral oil based products, synthetic based fluids and greases. Naugalube antioxidants meet the challenging requirements of today's industrial standards for the stabilization of lubricants and fuels. Synergistic blends can be formulated to optimize cost/performance benefits. Depending on the specific products, antioxidants are available in liquid, powder or flake form.

Alkylated Diphenylamine Antioxidants

Naugalube AMS
Naugalube 438L
Naugalube 438
Naugalube 635
Naugalube 640

Phenyl-alpha-naphthylamine Based Antioxidants

Naugard PANA
Naugalube APAN

Phenylenediamine Based Antioxidants for Fuels

Naugalube 403

Polymeric Amine Antioxidant

Naugalube TMQ

Low Molecular Weight Phenolic Antioxidants

Naugalube 22

Sulfurized Phenolic Antioxidants

Naugalube 15
Naugalube 16
Naugalube 18

High Molecular Weight Phenolic Antioxidants

Naugalube 32
Naugalube 37
Naugalube 38
Naugalube 531

Phenolic Antioxidants for Fuels

Naugalube FAO 30
Naugalube FAO 31
Naugalube FAO 32
Naugalube FAO 80

Phosphite Antioxidant

Naugalube TPP

Naugalube® Friction Modifiers are commonly used in boundary lubricant applications to reduce the coefficient of friction and improve the lubricity and energy efficiency. Typically, high quality engine oils contain friction modifiers to improve the fuel economy.

CalcinatTM & Naugalube® Anti-Wear Additives are commonly used in more severe boundary lubricant applications to reduce wear in areas of high load. Typically, high quality engine oils contain anti-wear additives to protect the engine components in the valve train and gear box.

CalcinatTM Extreme Pressure Additives are used to prevent sliding surfaces from welding together at high local temperatures and pressures under the most severe conditions. Typically, metalworking fluids require extreme pressure additives to prevent excessive tool wear from scoring or galling.

CalcinatTM Anti-Wear/Extreme Pressure Additives

Calcinat C-300CS
Calcinat C-300R
Calcinat OTS
Calcinat OR
Calcinat C-400CLR
Calcinat C-400W

Naugalube® Non-sulfur, Non-phosphorus Anti-Wear / FM Additives

Naugalube 810
Naugalube 812

CalcinatTM & Barinate® Corrosion Inhibitors & Rust Inhibitors are additives that prevent chemical attack on a metal surface. This group of additives repels water and neutralizes the acidic reaction by-products of corrosion formed at the lubricant surface. These products are typically used on a variety of metals.

Hybase® Fire-Side Corrosion Inhibitors are additives that prevent corrosion from combustion products resulting from the burning of fuels containing sulfur, vanadium and other heavy metals. These products are primarily used in coal fired turbines for electrical power generation

CalcinatTM Corrosion / Rust Inhibitors

Calcinat NC
Calcinat C-300CS
Calcinat C-300R
Calcinat OTS
Calcinat OR
Calcinat C-400CLR
Calcinat C-400W

Hybase® Fire-Side Corrosion Inhibitors

Hybase M-11D
Hybase M-12D
Hybase M-13D
Hybase M-14D

Barinate® Corrosion/Rust Inhibitors

Barinate B-70
Surchem 404
Surchem 404D

Lobase® Detergents are additives designed to clean the metal surfaces within a fired engine and prevent the build-up of deposits. The insoluble reaction by-products of the combustion process are removed by the detergents in the lubricant. These products are commonly used in fired engine applications.

Hybase® Overbased Detergents are additives designed to clean the metal surfaces within a fired engine and prevent the build-up of deposits. The acidic reaction by-products of the combustion process are neutralized, as well as, removed by the overbased detergent. These products are commonly used in fired engine applications.

Lobase® Detergents

Lobase C-4501J
Lobase C-4502
Lobase C-4503
Lobase C-4506

**Hybase® Overbased
Detergents**

Hybase C-231
Hybase C-311
Hybase C-313
Hybase C-401
Hybase C-402
Hybase C-500
Hybase M-401

Synton® High Viscosity PAO Viscosity Modifier/Synthetic Base are used as a part of a synthetic lubricant formulation, maintaining the enhanced performance characteristics of these formulations and helping to provide unique property and performance characteristics that cannot be obtained from conventional mineral-based fluids. **Synton® High Viscosity PAO** are polymeric materials added to a lubricant formulation to help reduce the formulation's tendency to change in viscosity with temperature. These types of formulations are often used in applications where the fluid sees wide temperature extremes. Maintaining the good performance properties at low temperatures while providing the proper film thickness at equipment operating temperatures

**Synton®
High Viscosity PAO**

Synton® PAO 40
Synton® PAO 100