

KINETIC TECHNOLOGIES, INC.
State Of The Art Friction Reduction Technology

ARGONNE NATIONAL LABORATORY
Argonne National Laboratory is operated by The University of Chicago for the U.S. Department of Energy

The advertisement features a central graphic with a blue and orange gradient background and a stylized atomic symbol. The text 'BORON CLS BOND' is prominently displayed at the top left. Below it, three product images are shown: a white bottle of MotorSilk MARINE, a white bottle of MotorSilk, and two black tubes of LUBRI SILK. The text 'WE'VE GOT ADVANCED LUBRICATION DOWN TO A SCIENCE' is positioned at the bottom left of the graphic area.

BORON CLS BOND

MOTOR SILK

MotorSilk MARINE

MOTOR SILK

LUBRI SILK

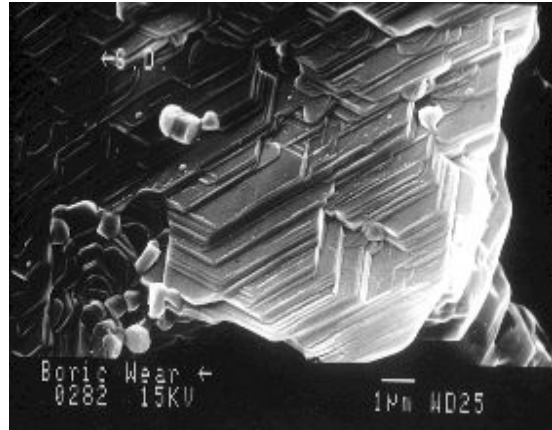
WE'VE GOT
ADVANCED LUBRICATION
DOWN TO A SCIENCE

Metal Surface Treatments / **Advanced Lubricants**
Biodegradable / **Anti-Corrosive** / **Extreme Pressure Agent**

Chemistry So Unique, Its Patented
US Govt. Patent # 5,431,830

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Boron CLS Bond® is based on the intricate **C**ystal **L**attice **S**tructure (**CLS**) of the hydrated boron molecules. That lattice structure allows the layers of hydrated boron particles to slide virtually friction-free over each other, like the playing cards in a fresh deck, while retaining awesome strength. The ultra fine particles of hydrated boron reach into every metal crevice, lubricating with super-slipperiness as they chemically bond with the host material.



Boric Acid Crystal Lattice Structure

A Breakthrough That's Redefining the Standards For:

- Reducing Friction and Heat
- Reducing Wear and Failure
- Reducing Corrosion
- Reducing Maintenance



Unique Molecular Structure Makes the CLS Bond Unrivaled



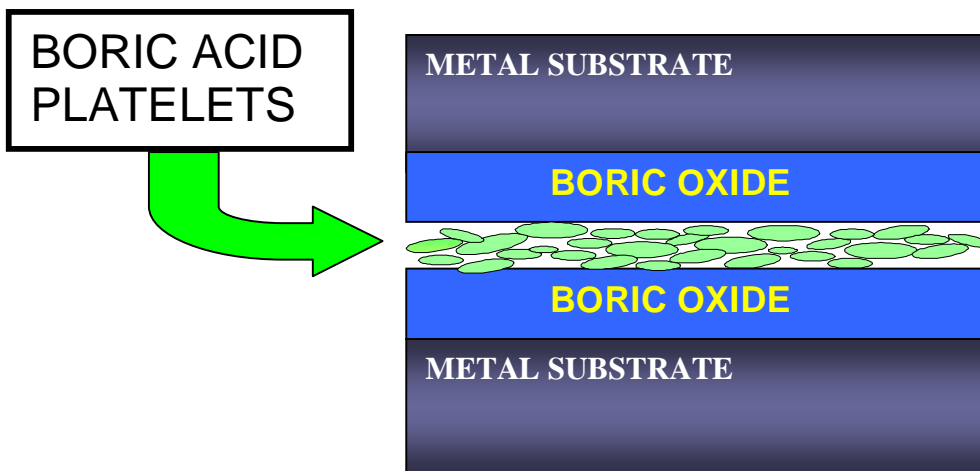
The benefits of CLS Bond® products have been documented in test after test. **For example, engine friction is reduced by up to 80%, and engine wear by up to 90%.** * And in private testing by industrial users, for both engine oils and industrial grease, the results have been even more impressive. Plus, boron is environmentally friendly in all forms. The bottom line is that lubricants with Boron CLS Bond® can be used anywhere there's a need for guaranteed performance.

*Testing performed by Argonne National Laboratory, BNM Research, Falex, Inc., Herguth Laboratories, Inc., Micromy AB and others

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How Does Our Patented Boron CLS Bond® Technology Work?

- Boric acid is introduced to a metallic substrate in the presence of water vapor. Interaction between the substrate, the water (H_2O), and Boric Acid (H_3BO_3) forms a continuously self-replenishing film of boric oxide (B_2O_3) that bonds to the substrate, forming a corrosion-resistant barrier.
- The boric oxide spontaneously reacts with the air, replenishing the boric acid. The boric acid molecules form into crystal platelets, each of which is a triclinic lattice of molecules strongly bound together by macromolecular covalent bonds
- Aligned by the mechanical motion of the substrate, the platelets form stacked layers with very small (0.318 nm) spaces between. As a result, the inter-platelet layers are bound by weak "van der Waals" forces, allowing a very low coefficient of friction.



The new Surface is 0.05 microns thick and 85% hardness of a diamond. All the asperities are filled in and a permanent boundary surface is created protecting surfaces from abrasive, adhesive and fatigue wear. The Boric Oxide also removes any carbon, varnish or corrosive buildup thus returning the fluid system back to its original efficiency.

Boron CLS Bond™ is **not an oil additive** or PTFE (Teflon®), it is the most advanced patented lubrication technology available in the world.

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A BREIF BACKGROUNDER

1. Boron CLS Bond developed at the renowned Argonne National Labs under the Department Of Energy
2. Government patent #5,431,830
3. Winner of the prestigious R&D 100 award in 1991
4. NOT PTFE (ground up Teflon) or chlorinated paraffin
5. 100 times slipperier than Teflon
6. Every claim supported by independent laboratories such as Hurguth USA, Falex corporation USA, Arrington Performance USA, Micromy Ab, Sweden, BNM Research Sweden, US Naval Research Labs, University of Maine etc.
7. Written up in the Journals of Tribology and Lubrication plus many engineering publications and research papers under self replenishing Born as a solid lubricant
8. Friction coefficient under 0.01 (80% reduction in friction)
9. Timken load of 90+ (No sign of failure)
10. One of greatest developments in the field of Tribology (study of friction and wear in lubricating systems) as a solid self replenishing solid boundary lubricant
11. Backed and tested by the prestigious PDM Research Center

20 Unique Reasons To Use The Boron CLS Bond™ Technology

- ✔ Reduces wear up to 90%
- ✔ Reduces friction up to 80%
- ✔ Increases engine efficiency 5-7%
- ✔ Increases fuel efficiency up to 12%
- ✔ Reduces friction heat 40-50%
- ✔ Rebuild cycles extended 2-3 times
- ✔ Eliminates surface degradation
- ✔ ONE time application
- ✔ Reduces maintenance cost up to 50%
- ✔ Extend oil drain cycle 2+ times
- ✔ Anticorrosive
- ✔ Displaces dirt, carbon, rust, and varnish
- ✔ Restores efficiency in older fluid systems
- ✔ Reduces emissions
- ✔ Reduces repair and warranty expense
- ✔ 100% biodegradable
- ✔ Safety net against overlooked maintenance practices
- ✔ Return On Investment within months
- ✔ A proven and tested technology
- ✔ The most advanced technology to protect your fluid system investment
- ✔ Developed under the DOE to reduce energy and friction at Argonne Labs

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Some of the Companies Already Using Boron CLS Bond™



Allied Signal
Bartell Yachts
Bimba Corporation
Boeing Aerospace & Aircraft
Robert Bosch
Chem Tool
Enron Wind
General Petroleum
Haliburton Corporation
Henkel Chemical
Hitachi Refrigeration
Florida Light and Power

Fujikoshi
Husqvarna
Idemitsu
Kaiman Aerospace
Marine Industries
Matsushita
Mitsubishi Heavy Industries
Mitsubishi Metals
Mitsui
Mabuchi Motors
Navistar
Neste/Fortum Oil
Nihon Chemical Kogyo
Nihon Victor Oil
Nisseki
Parking America
Raceway Marine, AB Sweden
Ryder Trucks

Ryobi
Shandong Provence/China
Southern Marine
Sumitomo Heavy Industries
Sumitomo Lubricants
Tayteks/Turkey
Toei Sagyo
Volvo N. America
Von Weise Gear Co.
Wellstream North Sea
Yasuda Fire and Casualty



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Everyday new companies are discovering the Boron CLS Bond™ Technology and integrating it in all its forms for all their fluid systems. This Technology has been written up in Lubrication and Tribology Journals as the greatest opportunity to reduce maintenance cost, extend fluid system life, reduce fuel and oil cost and component failure.

“70% of component replacement is the result of surface degradation”.

-Dr Rabinowitz of MIT at the American Society of Engineers Workshop

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Kinetic Technologies, Inc. Products

Motor Silk Engine Treatment And Marine Engine Treatment

This treatment developed to increase the performance, efficiency and life of your engine and contains Boron-based components that protect the vital working parts from friction, micro pitting, corrosion, and wear. The engine treatment forms a strong covalent and ionic bond with the metal surface lifting any existing carbon or varnish forming a permanent new surface that is super slippery with 85% hardness of a diamond. This new surface also blocks oxygen while virtually eliminating particle generation, two major catalysts in the oxidation process and the reason oil drains can be safely extended 2-4 times without any loss in efficiency or component wear. The coefficient is under 0.01 far surpassing the most expensive synthetic oils on the market. It provides a permanent boundary surface impervious to contaminants.

Lubri Silk Gear Treatment And Marine Gear Treatment This treatment is designed for use in all manual transmissions, manual transaxles, and final drives. It contains enhanced esters, synthetic-base oils and a complete boron anti-wear formulation. It improves shifting in manual transmissions, significantly reduces wear on gears and rolling elements, lowers operating temperatures and prolongs fluid life. The end result is lower operating temperatures, longer equipment life and more power.

Automatic Transmission (ATF) Treatment

Extends the life and lowers the operating temperature of your automatic transmission. It blends with your existing transmission fluid and contains boron-based components that protect vital parts from friction and corrosive elements. It toughens rotating components, inhibits overheating, smoothes out clutch shutter, clears stuck valve bodies and locked governors, and improves shift patterns. It provides durable, long lasting wear surfaces.

General Purpose Aerosol Lubricant And Marine Aerosol Treatment

In place of WD-40, this spray lubricant forms anti-corrosive surfaces protecting them from the elements while offering the same slipperiness. The applications are limitless wherever corrosion is not desired and lubricity a must.

General Purpose #2 Grease

The patented boron-based ingredient creates a permanent micro layer of extremely low friction Crystal Lattice Structures that become part of the metallic surfaces. Synthetic greases have a wide range of applications because they are biodegradable, waterproof, non-corrosive, non-melting, and fortified with boron derivatives. Synthetic Grease #2 is formulated to seal out water and lubricate under the most adverse condition. The highly adhesive and extreme pressure/extreme temperature properties prevent metal-to-metal contact and provide a long lasting, low friction surface impervious to the elements. The grease has a Timken Load Bearing of 90+ while most greases fail at 65. Since 80% of bearings are subject to over greasing thus damaging the bearings, utilizing the boron synthetic grease is protection against premature wear and failure.

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Diesel Fuel Treatment

This treatment is a blend of ultra low sulfur fuel base and patented boron-based ingredients. The blend provides greatly enhanced lubricity to low sulfur diesel fuel because of an active chemical process which creates a near permanent micro layer of extremely low friction CLS that become part of the metallic surfaces this reducing friction, metal wear, oxidation, corrosion and emissions and fuel. Additionally, the boron derivatives act as a highly effective Biostat. Fuel reduction of 5% resulted in diesel test.

Mold Release

This product is water-soluble and potency may be adjusted by simple water dilution. The Mold Release derivatives provide stable metallic-surface coatings that insure nonstick release in high temperature compression or injection process. As opposed to other petroleum or synthetic fluids that degrade over time, the effectiveness of this product actually improves with time. A uniform surface is maintained for extended periods of time because of the covalent and ionic bonds formed with the metal surfaces of the mold. A Concrete Mold Release is also available with slightly different chemical properties forming the same surface significantly reducing the adherence of the concrete to the surface.

We also carry a line of biodegradable hydraulic fluids, Oil, Turbine fluids and other formulations. We can formulate a solution for any fluid system application.

Performance – Test Results

Did you realize that...

“Half of the worlds energy is lost to friction with an estimated 250 billion dollars of that loss suffered in the U.S. alone” -Society Of Tribologist

Friction and wear in machinery, always a primary concern for equipment owners and managers, is the basis to find better lubricants. A prime example are the Slick 50s in the marketplace that rake in over a billion annually in sales and have no documented test to support their claims. These products contain PTFE (Teflon®) and are touted as reducing wear and friction. The developer of PTFE is Dupont who made it publicly known that there is NO evidence that Teflon® reduces friction. Consumer Reports stated that they “found no discernable benefits from any of these PTFE based products”.

Kinetic Technologies, Inc. now introduces the Boron CLS Bond Technology to fleet and equipment owners and managers. There is no need for redundant self testing since Boron CLS Bond is patented and has been in worldwide industrial use since 1995 and supported by millions of dollars in testing at prestigious laboratories worldwide using the most advanced testing equipment. (See the <http://www.SLTboron.com/> website for test results or request our Technology-Pack.

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Environment – Safety Test

Kinetic Technologies, Inc. is foremost an environmental company dedicated to reducing waste upon our earth and simultaneously making it financially beneficial. Our products are biodegradable and earth friendly.

Our product line benefits our earth by:

- 🌱 Reducing emissions
- 🌱 Reducing fuel usage
- 🌱 Significantly extending lubricant life
- 🌱 Reduce energy cost
- 🌱 Extend the life of components
- 🌱 Are biodegradable
- 🌱 Extend rebuild life 2-3 times
- 🌱 Reduce the oil drain cycle 2+ times without loss of efficiency or wear
- 🌱 Go to our website for MSDS (Manufacturers Safety Data Sheets)



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History

The Boron CLS Bond™ was developed under the Department of Energy's Argonne National Laboratories in the Tribology division by Dr Erdemer and awarded the prestigious R&D Award in 1991. Boron CLS Bond™ holds a U.S. Govt. Patent for its ability as a self-replenishing solid boundary lubricant. Today, Boron CLS Bond™ formulations are used throughout the world by major Corporations and Governments yet have not been offered in the consumer market and the reason it is not known to you. Kinetic Technologies, Inc.'s mission is to bring this technology to your attention and to work for you saving you thousands and millions per year in petroleum cost, downtime, parts and waste.



Company

Kinetic Technologies, Inc. is a Proactive Maintenance Engineering Company, here to assist fleet managers, plant engineers, and equipment owners in areas of reducing fluid contamination, power and energy loss as a result of friction, and greater independence from petroleum dependency. Our purpose matches the goals of our customers to lower the cost of owning or managing fluid systems by as much as 50%.

We offer the most advanced lubrication technology available trademarked as Boron CLS Bond™ as the cutting edge means to cut cost while increasing efficiency and productivity rendering obsolete lubrication dependent upon toxic anti-wear additives that are sacrificial and highly reactive.

Kinetic Technologies, Inc.

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