Product Data Sheet

MotorSilk® MSET
Engine Treatment

TREATMENT FOR GASOLINE AND DIESEL ENGINES

MotorSilk® Engine Treatment (MSET) contains **Boron-CLS-Bond®** one of the lowest friction technologies known. **Boron-CLS-Bond®** has its primary ingredient of molecular boron. Molecular hydrated boron is super slippery. Ultra-fine particles are reduced to less than 1 micron by a revolutionary jet-milling process at sub-zero temperatures. The sub-micrometer hydrated boron particles invade microscopic spaces and chemically (covalently) BOND to the surfaces of moving engine parts, making them harder than before (85% hardness of a diamond), then spontaneously create a Crystal Lattice Structure (CLS) of platelets made up of inter-atomically bound (H_3BO_3) molecules. These platelets have virtually no friction between them.

The most commonly invoked and illustrative analogy is a deck of cards; while a full deck is highly resistant to perpendicular pressure, the individual cards glide against each other when lateral pressure is applied. Strong interatomic (ionic) bonding and rigidity of layers prevent direct metal-to-metal contact, reducing friction and wear by 90 percent, thus inhibiting wear damage and corrosion. Those metal to metal contact points are where lubrication is needed, where not only extreme pressures are created but also where significant energy is lost to friction, deformation, and vibration.

Once established on the metal surfaces, **Boron-CLS-Bond®** outperforms all other fluid or fluid-dispersed extreme-pressure or friction-reduction additives, significantly improving and protecting your engine. When **Boron-CLS-Bond®** chemically bonds with the metal, the resultant boundary layer virtually eliminates metal-to-metal contact. The boric acid platelets protect metallic surfaces in your engine, cleaning intake valve deposits, fuel injectors and combustion chamber deposits, and sealing micro-pitting and micro-cracks.

In addition to improved engine efficiency and longevity, **MotorSilk®** with **Boron-CLS-Bond®** scores environmental points because it reduces GHG emissions, improves fuel economy, and is biodegradable. And, unlike PTFE-based treatments, there's no hazard potential for toxic gases.

MotorSilk® Engine Treatment with **Boron-CLS-Bond®** saves fuel, improves performance, extends engine life, extends regular oil change intervals, reduces operating temperatures, improve and maintain operating efficiencies, reduces emissions and is Biodegradable.

It is the only engine treatment that is ISO 14064-2 process compliant, validated and verified by the Canadian Standards Association (CSA) for reduction of GHG emissions by means of reducing the amount of fuel burned.

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USAGE

Use one 16oz/473ml bottle per 5 litre crankcase capacity, a 1:10 ratio. Agitate bottle before use. If used when you change your oil, simply add with any premium oil. If used between oil changes, add to engine at least 1,600 kilometres before your next oil change. This will ensure sufficient time for boundary layer formation and bonding.

Add directly to the crankcase when the engine is warm, then run the engine approximately five minutes. This treatment will remove sludge and varnish from your engine. When used in engines with over 160,000 kilometres, change the oil and replace the oil filter after 1,600 kilometres to eliminate these contaminants from your engine.

APPLICATIONS

All internal combustion, four-cycle engines of any horsepower can benefit from this long-lasting treatment.

SPECIFICATIONS

Color..... Translucent Tan
Base Fluid..... Full Synthetic
Viscosity..... 20 W 50
Flash point..... 180°C
Solids..... Boron Variants
D.O.T..... Unregulated
V.O.C. ..... None
Biodegradable……..... Yes

PACKAGING

Bottle…….16 oz / 473 ml
Bottle…….32 oz / 946 ml
Pail……35 lb / 16.6 litre
Drum……400 lb / 189.3 litre
Tote……2000 lb / 946.0 litre