DEUTERIUM-S®
PRODUCT APPLICATIONS
DEUTERIUM-S®

LUBRICATION FOR HIGH SPEED (for Bearings, Shafts)

WEARING RESISTANCE

STABILITY IN HIGH TEMPERATURE (for Chains, Gears)
FOR HIGHER CONDUCTIVITY  (for Electro Magnetic Surface)

PRECISION SURFACE TREATMENT

SURFACE ENERGY CONTROL  (for Electro Circuits, Connectors)
Deuterium-S® series are designed for applications in the high temperature range for use in various industrial application. In addition, it can provide both high polarity on surface and lubrication at the same time with chemical functional group treatment for every surface.

**COMBUSTION ENGINES**
It is exposed to high temperatures and pressures. The Deuterium-S provides durable wear protection. It also prevents corrosion of high temperatures with reactive exhaust fumes.

**GEARS, CHAIN BELTS**
The Deuterium-S minimizes corrosion caused by high humidity and temperatures. It also provides permanent dry lubrication required in complicated designed parts.

**BEARINGS, SHAFTS**
Bearings and pistons in mechanical unit require a lubricant compatible with plastic parts or rubber seals. The Deuterium-S will not vaporize in the high temperature of the unit.

**CIRCUIT CONDUCTIVITY**
The Deuterium-S delivers the long time tolerance and wear protection. The long time lubrication extends electronical accuracy.

**HARD DRIVES, CYLINDERS**
High speed rotating surface requires extra bonding adhesion due to centrifugal forces. The Deuterium-S S-250,350 series grades have a chemical functionality to provide the higher polarity.

**POLYMER PROCESSING**
Polyester, polyolefin, etc. Various polymer can be treated by using Deuterium-S as a processing agent in order to control miscibility and stability between polymer and other materials.
Deuterium-S® は多様な産業領域に必要な高温潤滑のために製造されました。また化学的機能性を潤滑性と同時に高い表面伝導性を提供します。

**ELECTRONIC CONNECTOR**
Precision electronics requires an accurate electrical stability. The Deuterium-S delivers efficient protection and provides processing stability and processability. It is also chemical non reactive.

**MICROCHIP CONNECTOR**
Sensitive process demands a clean, vacuum environment to ensure long component life and curtail outgassing. The Deuterim-S has a low volatility and provides reliable surface energy control.

**METAL PLATING SURFACE**
Metallization process requires a high polarized surface to ensure metal adhesion quality. It demands lubricant which has both low surface tension and high polarity.

**SURFACE TREATMENT AGENT**
Surface processing like a coating is exposed to various conditions. From 10 dynes/cm to over 70 dynes/cm, Deuterium-S can fulfill any customers’ requirement and process.

**SURFACE ENERGY CONTROL**
Control surface energy or surface tension is essential process of any final product. The Deuterium-S never contaminate the product with exceptional ability to control energy on various surface.

Visit us on the web at www.deuterium-s.com