

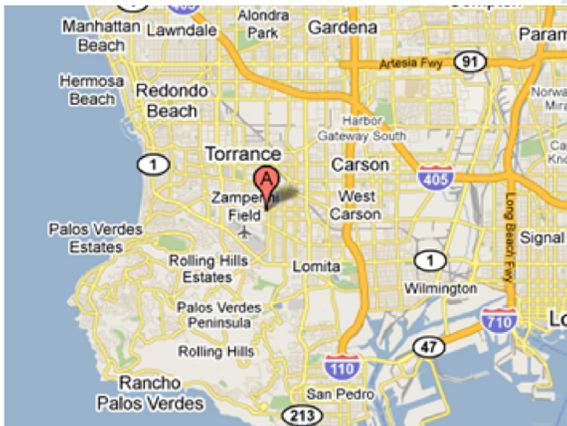


InnoSense LLC is a technology firm serving the aerospace, defense, energy, and healthcare markets. We develop cutting edge innovations in chemical and biological sensing, and nanomaterial technologies. Learn more about our latest innovations at www.innosense.us



InnoSense LLC is about 15 miles from Los Angeles International Airport. We have teaming arrangements with large and small companies to transition our technologies to commercially viable products.

Located in Southern California



For more information, please contact us at marketing@innosense.us

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IONOGLIDE™
**LUBRICANTS FOR
EXTREME
TEMPERATURES**

IONIC LIQUID-BASED LUBRICANTS - US PATENT PENDING

InnoSense LLC is developing an ionic liquid-based lubricant, IonoGlide™, for NASA Robotics. IonoGlide's™ blend of ionic liquid and pyridinium salts make it thermally stable. It can withstand a wide range of extremely cold and hot temperatures (~80 °C to -50 °C). It retains lubricity even after temperature cycling and outperforms current lubricants (e.g. Krytox GPL 101).

IonoGlide™ is compatible with various substrates. This innovative lubricant consistently protects substrates from corrosion and wear under extreme environments.

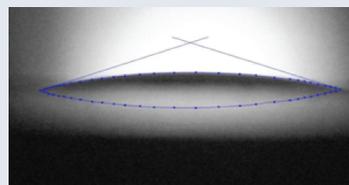
TECHNOLOGICAL BENEFITS

- Thermally stable – high decomposition temperature
- Durable – Excellent anti-wear performance
- Resistant to friction-induced heat
- Resistant to tribo-corrosion
- Retains performance after temperature cycling

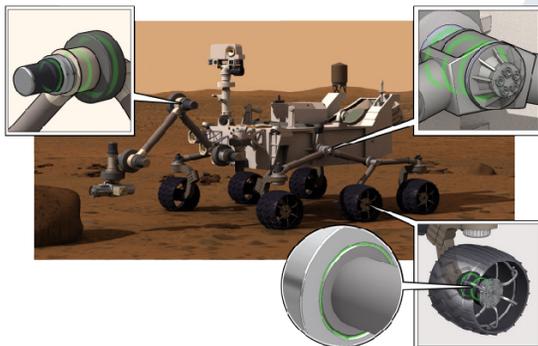


IonoGlide's™ advantages over existing lubricants would make it the lubricant of choice for manufacturers and end-users of high performance cars to increase horsepower and reduce friction.

Pin-on-disk tribometer test shows reduced wear tracks on a 310 stainless steel substrate coated with IonoGlide™



(top right) over the one coated with Krytox GPL 101 (middle left). Contact angle measurements (bottom left) show that IonoGlide has superior wettability, reducing friction.



Possible use of IonoGlide™ on NASA Mars Rover

POTENTIAL MARKETS

- Components that operate in high vacuum, outer space or radiation environments
- Machines and robots that operate in extreme temperatures
- MEMs and other superconductor applications
- Jet and high performance car engines
- Transport medium for reactive gases such as trifluoroborane, phosphine and arsine



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