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Award Winning Pennzane[®] Lubricants are Now Available in Customized Viscosities

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Pennzane[®] Synthesized Hydrocarbon Fluid, a low-vapor-pressure lubricant for vacuum and space based applications, is now available in two new grades, *Pennzane* X1000 and *Pennzane* X3000. The introduction of higher and lower viscosity fluids opens the door to a wide range of *Pennzane* fluid viscosities and expands the number of applications that can use this unique synthetic hydrocarbon lubricant.

Components that handle high loads or require the damping effect of higher viscosity greases will gain immediate benefit from X3000, which has a viscosity of 220cs at 100°C. The X1000 oil has a viscosity of 8cs at 100°C and an operating liquid range of -50°C to 125°C, allowing delicate systems with feather-weight torque to use a *Pennzane* lubricant. The new grades maintain the same low volatility, wide liquid range and additive solubility of the original *Pennzane* X2000, which has a viscosity of 14.5cs at 100°C. All grades are completely compatible, allowing for custom-blended fluids with viscosities from 8cs to 220cs (at 100°C).

With 14 years of “space tested” reliability, *Pennzane* lubricants are used regularly for bearings, gears and actuators in satellites, space vehicles and space suits. In terrestrial applications *Pennzane* fluids are used in vacuum manufacturing of semiconductors, and show promise in magnetic drive applications, where the ever shrinking physical size of drives nears vacuum-like conditions.

Pennzane fluid is a multiply alkylated cyclopentane (MAC), a synthetic hydrocarbon manufactured by Shell Global Solutions and distributed in the United States by Nye Lubricants, Inc. Nye was the first company to commercialize *Pennzane*-based lubricants and has a broad family of oils and greases made with *Pennzane* fluids.

Developed specifically for space applications *Pennzane* lubricants are ideal where low volatility, wide liquid range, and performance additive solubility have a significant impact on a component’s functionality and life span. Many studies have demonstrated *Pennzane* lubricants provide significantly higher wear protection compared to other low volatility lubricants such as perfluoropolyethers. The recently commercialized fluids make *Pennzane*-based lubricants even more of a design solution. Now a greater array of applications can take advantage of the low volatility properties that *Pennzane* lubricants offer.

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Pennzane Synthetic Hydrocarbon Fluid won an Industrial Innovation Award from the world's largest scientific society, The American Chemical Society, and was named by *R&D Magazine* as one of the 100 most important products of 1990, the year it was first commercially released.

ABOUT NYE: Nye Lubricants is an engineering company that partners with innovative companies that use high-quality synthetic lubricants and optical gels to increase the value of their products. Nye's synthetic lubricants and optical gels are specified in a full range of industries, including automotive, aerospace, appliance, aviation, electronics, medical instrumentation, office automation, paperboard manufacturing, photonics, semiconductor manufacturing, telecommunications, and textiles. Founded in 1844, Nye maintains regional engineering offices throughout the United States as well as a network of value added resellers in Africa, Asia, Australia, Europe, and South America.

For more information, contact Nye at 508-996-6721 or pennzane@nyelubricants.com.