



Award-Winning Connector Grease from Nye Lubricants Ensures Easy Mating without Resistance Build-up

UniFlor 8917, a new high-temp synthetic grease for separable electrical connectors, exceeded the requirements SAE/USCAR-2, Revision 3, the Performance Standard for Automotive Electrical Connection Systems. It passed the 1,008-hour, high-temperature testing with no discoloration or oxidation. It also provides excellent insertion force reduction - 50% to 60% - a critical feature for assembly-line autoworkers and field service technicians.

([PRWEB](#)) May 8, 2004 -- [Nye Lubricants Inc.](#) was awarded the 2004 Product of the Year Award by Lubricants World magazine for UniFlor 8917, Nye's high-temperature perfluoropolyether (PFPE)-based [connector grease](#) designed to help automakers meet new ergonomic standards on the assembly line and extend operating life in the field. UniFlor 8917 significantly reduces the force required to mate separable connectors and ensures low electrical resistance over the life of the connector.

The force historically required to mate separable connectors has been linked to repetitive stress injuries among auto plant workers. In April 2001 the United States Council for Automotive Research (USCAR) updated its Performance Standard for Automotive Electrical Connection Systems (SAE/USCAR-2, Revision 3), slashing the allowable mating force to 75 N (16 lbs.)—a value that must persist over 10 matings per connector. UniFlor 8917 exceeds the USCAR standard. Tests show that a 6.35-mm terminal lubricated with UniFlor 8917 can be mated to a depth of 0.375 inches at a rate of 0.0333 in./sec. with just 0.8 lbs. of force on the first mating and a mere 0.3 lbs. on the tenth mating. Test results also show that UniFlor 8917 can reduce insertion force 40% more than PFPE greases thickened with polytetrafluoroethylene (PTFE), widely hailed for its low coefficient of friction.

UniFlor 8917 also ensures reliable electricity flow after repeated re-matings of [separable connectors](#). An independent laboratory reports that in test runs of 1,008 hours at 150°C, the average resistance across terminals lubricated with UniFlor 8917 is 0.489 milliohms—more than 95% below the USCAR standard of 10 milliohms. In addition, UniFlor 8917 costs less than many PFPE/PTFE formulations.

UniFlor 8917 builds upon the success of the Nye's family of automotive [connector greases](#), including the automotive industry standard NyoGel® 760G, which is suitable for -40°C to 125°C connector applications.

Engineers responsible for terminal and connector quality may receive an evaluation sample of UniFlor 8917, a white paper about the development of UniFlor 8917, or more information about [synthetic lubricants](#) for separable connectors by contacting [Nye Lubricants, Inc.](#), at 1.508.742.2865, techhelp@nyelubricants.com, or logging on to www.SmartGrease.com.

[Nye Lubricants](#) is an engineering company that seeks long-term partnerships with innovative customers who 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, recreational equipment, semiconductor manufacturing, telecommunications, and textiles. Founded in 1844, Nye maintains regional engineering offices throughout the United States as well as a network of distributors in Africa, Asia, Australia, Europe, and South America.

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