

HANDI-LUBE™ ENVIROLUBE® AEROSOL

In almost every category of product, one brand stands out as the market leader in performance or quality. When it comes to protecting heavily loaded open gears, Whitmore's Envirolube® is recognized by OEMs and end-users alike as that product. Envirolube® is also available in an aerosol can. The product in this format is called Handi-Lube™.

No other open gear lubricant offers the protection from wear that is available from Handi-Lube™. The combination of a dense protective film, plus special chemical Extreme Pressure additives ensures smooth operation, even on gears that operate under the most severe load conditions.

By using Handi-Lube™ on heavily loaded gears, existing wear damage such as pitting or spalling is smoothed, restoring a smooth operating surface. This process is sometimes called "planishing".

The surfaces of new (or damaged) gears are not smooth. Microscopically they appear as a series of peaks and valleys called asperities. As gears engage, contact is limited to the tips of opposing asperities. With inadequate lubricants, these surface irregularities go through a cycle of "weld and break". This can improve the surface, but it can get out of control and lead to scuffing, deep irregular scratches that run vertically from the pitch line.

Handi-Lube™ creates an effective layer of chemical and physical protection that prevents scuffing and pitting (surface fatigue). The opposing asperities experience extreme specific load, but are prevented from welding to each other. The pressure causes them to yield, and they are pushed down into the "valleys". The end result is radical improvement in surface smoothness to both new and damaged gears.

Handi-Lube™ will not pack into the tooth root, will not flake off in cold weather, and does not form an abrasive paste when exposed to airborne dust.

BENEFITS:

- WEAR PROTECTION, SURFACE SMOOTHING - extends gear life and reduces operating expenses. The need for special running-in compounds is eliminated.
- RUST PROTECTION - protects against rust and corrosion.
- ANTIOXIDANT - stabilizes asphaltic base and inhibits oxidation and hardening of the spent lubricant.

APPLICATIONS:

Handi-Lube™ meets or exceeds the requirements of major Original Equipment Manufacturers for open gear lubricants.

Use Handi-Lube where infrequent lubrication doesn't justify installation of an automatic lubrication system.

ASTM #		TYPICAL CHARACTERISTICS
D-445	Kinematic Viscosity, (without diluent) cSt @ 40°C (extrapolated) cSt @ 100°C	30,000 659
D-2783	Four Ball EP Weld Point, kg	620
D-4172	Four Ball Wear, Scar Width, mm	0.55

The above are average values. Minor variations which do not affect product performance are to be expected in normal manufacturing.

PACKAGING

Aerosol Cans
12 per case

THE WHITMORE MANUFACTURING COMPANY

930 Whitmore Drive • P.O. Box 9300 • Rockwall, Texas 75087 • USA • (972) 771-1000 • Fax: (972) 722-2108
An ISO 9001, ISO/TS 16949, and ISO 14001 Registered Company • <http://www.whitmores.com>
Performance Under Pressure Since 1893

LIMITED WARRANTY: The Whitmore Manufacturing Company makes the Limited Express Warranty that at the date of delivery, its goods shall be free from defects in Whitmore's materials and workmanship and shall meet the express written statements of quality, if any, made by Whitmore in connection with the sale of the goods. Other than such Limited Express Warranty, there are no express warranties made with respect to the sale of goods and all implied warranties existing under the law are expressly disclaimed and negated, particularly, Whitmore NEGATES AND DISCLAIMS THE IMPLIED WARRANTY OF MERCHANTABILITY AND THE IMPLIED WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE. All other liability, either in contract or tort, including without limitation, strict liability found in Section 402A of the Restatement of Torts or otherwise, is negated and disclaimed. The sole remedy for Whitmore's breach of such Limited Express Warranty shall be a refund of the purchase price of its goods, and Whitmore shall have no responsibility for incidental or consequential damages sustained as a result of the use of the goods, whether sustained to the goods themselves or to other property. Data listed are subject to usual manufacturing variations.