

TECTYL® 930E

Description

TECTYL® 930E is an internal combustion engine oil and corrosion preventive for all new and rebuilt engines. The film is oily and translucent. As a preservative oil, TECTYL® 930E protects engine parts during covered shipment and indoor storage.

TECTYL® 930E is approved under Military Specification MIL-PRF-21260E, Grade 30, and has QPL Reference Number MP-405, and SAE Standard J2361, PRI QPL Number PRI EO 0044.

Laboratory Data

Typical Properties

	<u>Summary</u>	<u>Tolerances</u>
Density, Weight/Gallon @ 77°F (25°C)	7.4 ± 0.1 lbs./gallon	887 grams/L
Specific Gravity @ 60°F (15.6°C)	0.890	
Recommended Dry Film Thickness over Metal Profile	0.4 mils	10 microns
Theoretical Coverage @ Recommended DFT	4,010 sq. ft./gallon	98.4 sq. meters/L

Specification Limits

	<u>Typical</u>	<u>Minimum</u>	<u>Maximum</u>
Flash, C.O.C.*, Finished Oil	224°C	220°C	
API Gravity	27.4	26.4	28.4
Viscosity	@100°C cST	10.64	11.14
	@ 40°C cST	82.61	92.61
Viscosity Index	113	80	
Pour Point, °C	-36		-18
Carbon (Ramsbottom)	1.31	1.16	1.46
Sulfated Ash	1.24	1.116	1.488
Sulfur (Finished Oil)	0.68	0.544	0.816
Sulfur (Additive)	0.43	0.387	0.516
Phosphorous	0.118	0.1062	0.1416
Calcium	0.29	0.261	0.348
Barium	0	0	<0.01
Zinc	0.131	0.1179	0.1572
Sodium	0	0	<0.01
Nitrogen	0.093	0.0837	
Magnesium	0.016	0.01	<0.03
Boron	0	0	<0.01
Copper	0	0	<0.01
Potassium	0	0	<0.01
Chlorine	0.011	0.01	<0.03
Silicon	0.002	0	<0.01

*C.O.C. (Cleveland Open Cup)

Surface Preparation

The maximum performance of TECTYL® 930E can be achieved only when the metal surfaces to be protected are clean, dry, and free of rust, oil, and mill scale. Daubert Chemical Company recommends that the metal substrate temperature be 50 - 95°F (10 - 35°C) at the time of product application.

Application

TECTYL® 930E is formulated to be used as supplied. Ensure uniform consistency prior to use. Continued stirring is generally not required. If the product thickens due to cold storage or loss of solvent during use, contact Daubert Chemical Company. DO NOT THIN TECTYL® 930E. Incorrect thinning will affect film build, dry time and product performance. Daubert Chemical Company recommends that the ambient and product temperature be 50 - 95°F (10 - 35°C) at time of application.

TECTYL® 930E should be used as factory fill and break-in oil for all new and rebuilt engines. This is a completely operational oil for current production engines meeting the requirements of MIL-PRF-21260E and need not be changed until the first scheduled oil change specified by engine manufacturer. As a preservative coating, TECTYL® 930E is used to protect engine parts during covered shipment and indoor storage.

TECTYL® 930E is compatible with lubricating oils qualified under MIL-PRF-21260E, MIL-PRF-2104, and MIL-L-46152E.

Removal

TECTYL® 930E can be removed with TECTYL® HPS solventborne thinner, vapor degreasing, hot alkaline wash, or low pressure steam. TECTYL® 930E can be removed from fabrics by normal dry cleaning procedures. Avoid the use of chlorinated or highly aromatic solvents when removing from painted surfaces, as these solvents may adversely affect paint.

Caution

Refer to Daubert's Material Safety Data Sheet for health and safety instructions.

Note:

The addition of any product over or under this coating is not recommended. The use of additional coatings could result in chemical incompatibility, thus adversely affecting the performance of this coating as stated in the lab data section. If a product other than Daubert Chemical Company's recommended product is required, written authorization must be obtained from Daubert Chemical Company.

3/24/04:kp

CAUTION: The data, statements and recommendations set forth in this product information sheet are based on testing, research and other development work which has been carefully conducted by us, and we believe such data, statements and recommendations will serve as reliable guidelines. However, this product is subject to numerous uses under varying conditions over which we have no control, and accordingly, we do NOT warrant that this product is suitable for any particular use. Users are advised to test the product in advance to make certain it is suitable for their particular production conditions and particular use or uses.

WARRANTY: Daubert Chemical Company, Inc. ("Daubert") warrants all products manufactured by it to be free from defects in material and workmanship. DAUBERT MAKES NO OTHER WARRANTIES, WHETHER, EXPRESSED OR IMPLIED, WITH RESPECT TO SUCH PRODUCTS, AND ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE AND IMPLIED WARRANTIES ARISING FROM A COURSE OF DEALING OR USAGE OF TRADE, ARE DISCLAIMED BY DAUBERT. All claims hereunder must be made in writing within 30 days after receipt of the products at the buyer's plant and prior to further processing the products or combining them with other materials or products. Daubert's liability, whether under this warranty or in contract, tort, negligence or otherwise, is limited to the return of the net purchase price paid for any products proven defective or, at Daubert's option, to the repair or replacement of said products upon their return, transportation prepaid, to Daubert. THE REMEDY HEREBY PROVIDED SHALL BE THE EXCLUSIVE AND SOLE REMEDY OF THE BUYER, AND UNDER NO CIRCUMSTANCES SHALL DAUBERT BE LIABLE FOR CONSEQUENTIAL OR INCIDENTAL DAMAGES. No Daubert representative or other person is authorized to change this warranty in any way or to assume for Daubert any other liability in connection with the sale or use of its products.

REFER TO MATERIAL SAFETY DATA SHEET FOR HEALTH AND SAFETY INFORMATION.