

# Industry Standards

Round 5

6/4/2007

Item	Mfg Listed Standard	Organization	Standard Title	Type
Chain and Cable Lubricants	EPA 560/6-82-003	Environmental Protection Agency	EPA 560/6-82-003, number CG-2000, is the Shake Flask Test used by the lubricant industry to evaluate biodegradability.	Test Method
	EPA 600/4-90/027 for aquatic toxicity	Environmental Protection Agency	Methods for Measuring the Acute Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organisms	Test Method
Corrosion Preventatives	ASTM D 1748	American Society for Testing and Materials	D1748 Standard Test Method for Rust Protection by Metal Preservatives in the Humidity Cabinet	Test Method
	ASTM D-1735	American Society for Testing and Materials	D1735 Standard Practice for Testing Water Resistance of Coatings Using Water Fog Apparatus	Test Method
	ASTM D-445	American Society for Testing and Materials	D445 Standard Test Method for Kinematic Viscosity of Transparent and Opaque Liquids (and the Calculation of Dynamic Viscosity)	Test Method
	ASTM D-92	American Society for Testing and Materials	D92 Standard Test Method for Flash and Fire Points by Cleveland Open Cup Tester	Test Method
	ASTM D-97	American Society for Testing and Materials	D97 Standard Test Method for Pour Point of Petroleum Products	Test Method
	NACE TM0374	National Association of Corrosion Engineers	Laboratory Screening Tests to Determine the Ability of Scale Inhibitors to Prevent the Precipitation of Calcium Sulfate and Calcium Carbonate from Solution (for Oil and Gas Production Systems)	Performance Standard
Food Cleaners	536A	Federal Test Method Standard	SOAP AND SOAP PRODUCTS (INCLUDING SYNTHETIC DETERGENTS) SAMPLING AND TESTING	Test Method
	Boeing D6-7127	Boeing	D6-7127 "Cleaning Interiors of Commercial Transport Aircraft"	Test Method, Performance Standard
	Clean Air	South Coast Air Quality Management District	The South Coast Air Quality Management District hereby certifies the above product as a "Clean Air Solvent".	Test Method
	Navsea 6840	US Navy	U.S. Navy surface ship (non-submarine) authorized chemical cleaning products and dispensing systems	Performance Standard
Forming Lubricants	Boeing Process Specification BAC 5001-4	Boeing	Flareless Tube End Fabrication	Test Method
	EPA 560/6-82-003	Environmental Protection Agency	Describes methods for performing testing of chemical substances under the Toxic Substances Control Act	Test Method

Gear Lubricants	ANSI/AGMA 9005-E02	American Gear Manufacturers Association	Industrial Gear Lubrication	Performance Standard
	AGMA 2-8A	American Gear Manufacturers Association	R&O and EP Gear Lubes Grades	Performance Standard
	API GI-1	American Petroleum Institute	Designates the type of service characteristics of automotive spiral-bevel and worm gear axles as well as some manually operated transmissions operating under such mild conditions of low unit pressures and sliding velocities that straight mineral oil can be used satisfactorily. Oxidation and rust inhibitors, defoamers and pour depressants may be utilized to improve the characteristics of lubricants for this service. Frictional modifiers and extreme pressure agents shall not be utilized.	Performance Standard
	API GL-2	American Petroleum Institute	Designates the type of service characteristics of automotive type worm gear axles operating under such conditions of load, temperature and sliding velocities that lubricants satisfactory for API GL-1 service will not suffice. (obsolete)	Performance Standard
	API GL-3	American Petroleum Institute	Lubricant with light EP effect for transmissions and non-hypoid gear drives. Used by several vehicle manufacturers for first fill of transmissions.	Performance Standard
	API GL-4	American Petroleum Institute	API GL-4 is generally equivalent to military specification MIL-L-2105 for manual transmissions and spiral bevel gears engaged in moderate service. API GL-4 rates a gear lubricant's performance. Designates the type of service characteristics of gears, particularly hypoid in passenger cars and other automotive equipment operated under high-speed: shock-load, low-torque, and low-speed: high-torque conditions.	Performance Standard
	ASTM D-1404	American Society for Testing and Materials	D1404/D1404M Standard Test Method for Estimation of Deleterious Particles in Lubricating Grease	Test Method
	ASTM D-2270	American Society for Testing and Materials	D2270 Standard Practice for Calculating Viscosity Index From Kinematic Viscosity at 40 and 100°C	Test Method
	ASTM D-2619	American Society for Testing and Materials	D2619 Standard Test Method for Hydrolytic Stability of Hydraulic Fluids (Beverage Bottle Method)	Test Method
	ASTM D-2711	American Society for Testing and Materials	D2711 Standard Test Method for Demulsibility Characteristics of Lubricating Oils	Test Method
ASTM D-445	American Society for Testing and Materials	D445 Standard Test Method for Kinematic Viscosity of Transparent and Opaque Liquids (and the Calculation of Dynamic Viscosity)	Test Method	

ASTM D-5864	American Society for Testing and Materials	D5864 Standard Test Method for Determining Aerobic Aquatic Biodegradation of Lubricants or Their Components	Test Method	
ASTM D-665	American Society for Testing and Materials	D665 Standard Test Method for Rust-Preventing Characteristics of Inhibited Mineral Oil in the Presence of Water	Test Method	
ASTM D-892	American Society for Testing and Materials	D892 Standard Test Method for Foaming Characteristics of Lubricating Oils	Test Method	
ASTM D-92	American Society for Testing and Materials	D92 Standard Test Method for Flash and Fire Points by Cleveland Open Cup Tester	Test Method	
ASTM D-97	American Society for Testing and Materials	D97 Standard Test Method for Pour Point of Petroleum Products	Test Method	
ASTM D-974	American Society for Testing and Materials	D974 Standard Test Method for Acid and Base Number by Color-Indicator Titration	Test Method	
DIN 51517	Deutsches Institut fur Normung	Lubricants - Lubricating oils - Part 1: Lubricating oils C; Requirements	Test Method	
DB s1.53.101	David Brown Power Transmission Products	Meets or exceeds requirements of David Brown performance requirement	Performance Standard	
FGZ (DIN51354)	Deutsches Institut fur Normung	Gearwheel twisting/tension testing machine for lubricants	Test Method	
ASTM D-2266	American Society for Testing and Materials	D2266-01 Standard Test Method for WEAR Preventive Characteristics of Lubricating Grease (Four-Ball Method)	Test Method	
ISO 150	International Organization for Standardization	ISO 150 specifies the requirements and the corresponding methods of test for raw, refined and boiled linseed oils for paints and varnishes.	Test Method	
ISO 46	International Organization for Standardization	ISO 3448 Industrial liquid lubricants -- ISO viscosity classification	Test Method	
ISO 90	International Organization for Standardization	ISO 3448 Industrial liquid lubricants -- ISO viscosity classification	Test Method	
Readily Biodegradable EPA 560/6-82-003	Environmental Protection Agency	Describes methods for performing testing of chemical substances under the Toxic Substances Control Act	Test Method	
SAE 30	Society of Automotive Engineers	SAE J300 Engine Oil Viscosity Classification	Test Method	
SAE GEARGRADE 80W90	Society of Automotive Engineers	SAE J300 Engine Oil Viscosity Classification	Test Method	
General Purpose Household Cleaners	536A	Federal Test Method Standard	SOAP AND SOAP PRODUCTS (INCLUDING SYNTHETIC DETERGENTS) SAMPLING AND TESTING	Test Method
	GS-8	Green Seal	Green Seal Environmental Standard for Household Cleaners	Test Method
	ASTM D1308	American Society for Testinfg and Materials International	D1308 Standard Test Method for Effect of Household Chemicals on Clear and Pigmented Organic Finishes	Test Method

	Boeing D6-7127	Boeing	D6-7127 "Cleaning Interiors of Commercial Transport Aircraft"	Test Method, Performance Standard
	Clean Air	South Coast Air Quality Management District	The South Coast Air Quality Management District hereby certifies the above product as a "Clean Air Solvent".	Test Method
	Navsea 6840	US Navy	U.S. Navy surface ship (non-submarine) authorized chemical cleaning products and dispensing systems	Performance Standard
Industrial Cleaners	ASTM D13	American Society for Testing and Materials International	D13 Standard Specification for Spirits of Turpentine	Performance Standard
	ASTM D1364	American Society for Testing and Materials	D1364 Standard Test Method for Water in Volatile Solvents (Karl Fischer Reagent Titration Method)	Test Method
	ASTM D1836	American Society for Testing and Materials	D1836 Standard Specification for Commercial Hexanes	Performance Standard
	ASTM D235	American Society for Testing and Materials International	D235 Standard Specification for Mineral Spirits (Petroleum Spirits) (Hydrocarbon Dry Cleaning Solvent)	Performance Standard
	ASTM D3278	American Society for Testing and Materials	D3278 Standard Specification for 2-Ethoxyethyl Acetate (99 % Grade)	Performance Standard
	ASTM D-445	American Society for Testing and Materials	D445 Standard Test Method for Kinematic Viscosity of Transparent and Opaque Liquids (and the Calculation of Dynamic Viscosity)	Test Method
	ASTM D-446	American Society for Testing and Materials	D446 Standard Specifications and Operating Instructions for Glass Capillary Kinematic Viscometers	Performance Standard
	ASTM D-92	American Society for Testing and Materials	D92 Standard Test Method for Flash and Fire Points by Cleveland Open Cup Tester	Test Method
	Boeing BAC 5750 Section 5.1s Glidsafe Prepsolv (Glidco:former manufacturer)	Boeing	Solvent Cleaning	Performance Standard
	EPA Method 24	Environmental Protection Agency	Determination of Volatile Matter Content, Water Content, Density, Volume Solids, and Weight Solids of Surface Coatings	Test Method

	EPA SNAP	Environmental Protection Agency	Significant New Alternatives Policy: Section 612 of the Clean Air Act (CAA) requires EPA to establish a program to identify alternatives to Class I (CFCs, halons, carbon tetrachloride, methyl chloroform, methyl bromide, and HFCs) and Class II (HCFCs) ozone-depleting substances and to publish lists of acceptable and unacceptable substitutes. Upon promulgation of the final rule, it is illegal to replace a Class I or Class II substance with any substitute which the Administrator determines may present adverse effects to human health or the environment where other substitutes have been identified that reduce overall risk and are currently or potentially available.	Other
	GS-37	Green Seal	Green Seal Environmental Standard for General-Purpose, Bathroom, Glass, and Carpet Cleaners Used for Industrial and Institutional Purposes	Test Method
	On the National Contingency Plan (N.C.P.) list of registered oil emulsifiers	Environmental Protection Agency	National Contingency Plan	Other
Multipurpose Cleaners	APR 1755B, category 10 for use in the aerospace industry	Society of Automotive Engineers	Effect of Cleaning Agents on Aircraft Engine Materials, Stock Loss Test Method	Test Method
	ASTM D1298	American Society for Testing and Materials	D1298 Standard Test Method for Density, Relative Density (Specific Gravity), or API Gravity of Crude Petroleum and Liquid Petroleum Products by Hydrometer Method	Test Method
	ASTM D130	American Society for Testing and Materials	D130 Standard Test Method for Corrosiveness to Copper from Petroleum Products by Copper Strip Test	Test Method
	ASTM D2500	American Society for Testing and Materials	D2500 Standard Test Method for Cloud Point of Petroleum Products	Test Method
	ASTM D86	American Society for Testing and Materials	D86 Standard Test Method for Distillation of Petroleum Products at Atmospheric Pressure	Test Method
	EPA/600/4-90/027, USEPA EMSL	Environmental Protection Agency	EPA 600/4-90-027F: Methods for Measuring the Acute Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organisms	Test Method
	GS-34	Green Seal	This standard establishes environmental requirements for cleaning/degreasing agents.	Performance Standard
	GS-37	Green Seal	Green Seal Environmental Standard for General-Purpose, Bathroom, Glass, and Carpet Cleaners Used for Industrial and Institutional Purposes	Test Method

	OECD 301B	Organization for Economic Cooperation and Development	CO2 Evolution Test for biodegradation	Test Method
	VOC's - EPA 601	Environmental Protection Agency	Purgeable Halocarbons	Test Method
	VOC's - EPA 602	Environmental Protection Agency	Purgeable Aromatics	Test Method
	VOC's - EPA 608	Environmental Protection Agency	Organochlorine Pesticides and PCBs	Test Method
Parts Wash	ASTM D-92	American Society for Testing and Materials	D92 Standard Test Method for Flash and Fire Points by Cleveland Open Cup Tester	Test Method
	ASTM D-446	American Society for Testing and Materials	D446 Standard Specifications and Operating Instructions for Glass Capillary Kinematic Viscometers	Test Method
	ASTM D-445	American Society for Testing and Materials	D445 Standard Test Method for Kinematic Viscosity of Transparent and Opaque Liquids (and the Calculation of Dynamic Viscosity)	Test Method
	ASTM D-877	American Society for Testing and Materials	D877 Standard Test Method for Dielectric Breakdown Voltage of Insulating Liquids Using Disk Electrodes	Test Method