If you have any questions or comments regarding API standards, please visit https://www.api.org/products-and-services/standards

NOTE Free publications with an asterisk are subject to a $10.00 handling charge for each total order, plus actual shipping charges.

**GENERAL**

Pubi 1593
Gasoline Marketing in the United States Today
Provides information on motor fuel and gasoline consumption, U.S. motor fuel distribution, the U.S. gasoline pricing system, motor gasoline prices and taxes, the number/configuration of retail gasoline outlets, and employment/productivity in the retail gasoline distribution industry. Pages: 77

Pubi 1673
Compilation of Air Emission for Petroleum Distribution Dispensing Facilities
Compiles the most widely accepted, available emission factors and emission estimation techniques for developing air emission estimates from evaporative loss sources of petroleum products at marketing and distribution facilities. These losses can occur from transfer and storage operations and fugitive equipment leaks and spillage. Pages: 29
2nd Edition | July 2009 | Product Number: A16732 | Price: $88.00

**AVIATION**

RP 1543
Documentation, Monitoring and Laboratory Testing of Aviation Fuel During Shipment from Refinery to Airport
Aviation fuels pass through a variety of storage and handling facilities, from refinery to airport. As aviation fuels are stored and transported in storage and transportation systems where contact with non-aviation products may occur, a fuel quality monitoring program is required, in addition to equipment, operating, inspection and maintenance standards. The purpose of this practice is to ensure the fuel remains on specification. This recommended practice (RP) was written to provide guidance on the development of an aviation fuel monitoring and testing program (fuel quality monitoring program) for aviation fuel from point of manufacture to delivery to the airport. “Proper handling” entails documenting and testing aviation fuel quality as product is transported throughout the supply chain to maintain the original product specification. Pages: 25
1st Edition | July 2009 | Reaffirmed: April 2019
Product Number: A154301 | Price: $65.00

RP 1595
Design, Construction, Operation, Maintenance, and Inspection of Aviation Pre-Airfield Storage Terminals
Contains basic requirements for the design, construction, operation, and maintenance of pre-airfield storage terminals located directly upstream of the airport, hereafter referred to as “pre-airfield storage terminals.” This recommended practice provides guidance on the minimum equipment standards and operating procedures for the receipt and storage of aviation fuels at pre-airfield storage terminals, located directly upstream of the airport, and its shipment directly via a grade-dedicated pipeline, marine vessel (barge or ship), or road/rail transport to an airport. This RP does not address in-transit or breakout storage upstream of the pre-airfield storage terminal. The design and construction provisions of this standard are intended for application at new facilities. Application of the design and construction provisions of this standard to facilities, equipment, structures, or installations that are already in place, that are in the process of construction or that are installed before the date of this publication, should be evaluated when circumstances merit. Such an evaluation should consider the site-specific circumstances and detailed accounting for both the potential and tolerance for risk, existing conditions at the installation, and overall benefit for applying the required design and construction provisions. The operation, sampling, testing, and maintenance provisions in the various sections of this standard shall apply to both new and existing installations. Pages: 75
2nd Edition | October 2012 | Reaffirmed: April 2019
Product Number: C159502 | Price: $251.00

As of 2010, API does not maintain or distribute the following aviation fuel equipment related documents:

EI 1529
Aviation Fuelling Hose

EI 1540
Design, Construction, Operation and Maintenance of Aviation Fuelling Facilities, IP Model Code of Safe Practice Part 7

EI 1542
Identification Markings for Dedicated Aviation Fuel Manufacturing and Distribution Facilities, Airport Storage and Mobile Fuelling Equipment

EI 1550
Handbook on Equipment Used for the Maintenance and Delivery of Clean Aviation Fuel

EI 1581
Specification and Qualification Procedures for Aviation Jet Fuel Filter/Separators

EI 1582
Specification for Similarity for API/EI 1581 Aviation Jet Fuel Filter/Separators

EI 1584
Four-Inch Aviation Hydrant System Components and Arrangements

EI 1585
Guidance in the Cleaning of Aviation Fuel Hydrant Systems at Airports

EI 1590
Specifications and Qualification Procedures for Aviation Fuel Microfilters

EI 1594
Initial Pressure Strength Testing of Airport Fuel Hydrant Systems with Water

EI 1596
Design and Construction of Aviation Fuel Filter Vessels

EI 1597
Procedures for Overwing Fuelling to Ensure Delivery of the Correct Fuel Grade to an Aircraft

EI 1598
Considerations for Electronic Sensors to Monitor Free Water and/or Particulate Matter in Aviation Fuel

EI 1599
Laboratory Tests and Minimum Performance Levels for Aviation Fuel Dirt Defense Filters

The documents listed above are maintained and distributed by the Energy Institute. For ordering information, please refer to the following website: https://publishing.energyinst.org/
RP 1525 ■
Bulk Oil Testing, Handling, and Storage Guidelines
Provides recommended equipment and procedures for the proper handling of incoming and outgoing shipments of lubricants to prevent contamination and spillage, and to protect product quality. The guidelines cover receipt, storage, packaging, and shipment of finished lubricants in bulk or packaged goods ranging from Intermediate Bulk Containers (IBCs) to pails. A log (whether electronic or hardcopy) detailing incoming and outgoing shipments is recommended and may be mandatory in some jurisdictions. Pages: 37
2nd Edition | June 2021 | Product Number: F15252
You may download a PDF of this document from https://www.api.org/products-and-services/engine-oil/documents/1525-guidelines

API 1525A ■
Bulk Engine Oil Chain of Custody and Quality Documentation
Provides procedures for managing bulk engine oil chain of custody to ensure oil quality from the point of manufacture to installation in the end user’s engine. The procedures specifically address the following key topics: Bulk Engine Oil Provider (BEOP) practices; the ordering of oils meeting API 1509; chain-of-custody documentation that identifies bulk engine oil throughout the supply system; and requirements for informing consumers about the types of engine oil available for installation and requirements for notification (written and/or electronic) and labeling of the oil installed in mobile equipment engines. Pages: 19
2nd Edition | November 2021 | Product Number: F1525A2
You may download a PDF of this document from https://www.api.org/products-and-services/engine-oil/documents/api-1525a

RP 1604 ■
Closure of Underground Petroleum Storage Tanks
Provides operating procedures that may be used for the abandonment, removal, storage, temporarily-out-service, and sale of used underground tanks that have contained gasoline or other flammable liquids. Pages: 22
4th Edition | February 2021 | Product Number: A16044 | Price: $90.00

RP 1615
Installation of Underground Petroleum Storage Systems
Guide to procedures and equipment that should be used for the proper installation of underground storage systems for bulk petroleum products or used oil at retail and commercial facilities. The stored products include gasoline, diesel fuel, kerosene, lubricating oils, used oil, and certain bio-fuel blends. This RP is intended for use by architects, engineers, tank owners, tank operators, and contractors. Contractors, engineers, and owners or operators who are preparing to design or install an UST system should investigate the federal, state, and local requirements and current methods of compliance for vapor recovery in that region. Vapor recovery is covered in detail in Section 17 of this document. This RP is not intended to cover specialized installations, such as fuel storage systems at marinas or airports, heating oil storage systems (either residential or bulk), or systems installed inside buildings. However, it does outline recognized and generally accepted good engineering practices that may be of use for these specialized installations. This RP does not apply to the installation of below ground or above ground bulk storage systems greater than 60,000 gallons. Pages: 89
Product Number: A16156 | Price: $222.00

RP 1621
Bulk Liquid Stock Control at Retail Outlets
Primarily applies to underground storage of motor fuels and used oil at retail and commercial facilities. It assists the operator in controlling bulk stock losses, thereby achieving a high level of safety and pollution control, while maximizing profits. Pages: 25
5th Edition | May 1993 | Reaffirmed: May 2020
Product Number: A16210 | Price: $90.00

RP 1626
Storing and Handling Ethanol and Gasoline-Ethanol Blends at Distribution Terminals and Filling Stations
(includes Errata 1 dated February 2011)
Describes recommended practices for the storing, handling, and fire protection of ethanol and gasoline-ethanol blends from E1 to E10 and from E70 to E100 (used for E85) at distribution terminals and filling stations. Where information exists for gasoline-ethanol blends from E11 to E15, it is shared. Recommended practices for E16 through E69 are not covered because currently these blends are not legal gasoline blends or alternative fuels. There is a general lack of information on the properties of these blends and there are currently no filling station components certified by any nationally recognized testing laboratory for these blends. Pages: 59
2nd Edition | August 2010 | Reaffirmed: May 2020
Product Number: A16262 | Price: $168.00

Std 1631
Interior Lining and Periodic Inspection of Underground Storage Tanks
Provides minimum recommendations for the interior lining of existing steel and fiberglass reinforced plastic underground tanks used to store petroleum-based motor fuels and middle distillates. Recommendations and procedures to be followed by contractors, mechanics, and engineers are presented. Methods for vapor-freeing tanks, removing sediment, and cleaning interior surfaces of steel and fiberglass tanks are also presented, as are guidelines for identifying tanks that may be lined. The methods described in this standard are applicable to steel and fiberglass-reinforced plastic tanks used for the storage of petroleum-based motor fuels and middle distillates. The procedures are applicable to tanks installed in typical retail service station outlets, but may also be used for tanks installed at other types of facilities. Pages: 25
Product Number: A16315 | Price: $94.00

RP 1637
Using the API Color-Symbol System to Identify Equipment, Vehicles, and Transfer Points for Petroleum Fuels and Related Products at Dispensing and Storage Facilities and Distribution Terminals
Describes a system for marking equipment used to store and handle bulk petroleum, alcohol-blended petroleum and biodiesel products. The marking system described in this recommended practice does not cover aviation fuels. Marking systems for aviation fuels are described in API/IP Std 1542. Pages: 22
<table>
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<tr>
<td>A16391</td>
<td>$94.00</td>
<td>1st</td>
<td>July 2003</td>
<td>RP 1639: Owner/Operator's Guide to Operation and Maintenance of Vapor Recovery Systems at Gasoline Dispensing Facilities</td>
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<td>A164002</td>
<td>$226.00</td>
<td>2nd</td>
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<td>RP 1640: Product Quality in Light Product Storage and Handling Operations</td>
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<td>A16421</td>
<td>$66.00</td>
<td>1st</td>
<td>February 1996</td>
<td>Publ 1642: Alcohol, Ethers, and Gasoline-Alcohol and -Ether Blends</td>
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<td>A16451</td>
<td>$62.00</td>
<td>1st</td>
<td>August 2002</td>
<td>Publ 1645: Stage II Cost Study</td>
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<td>A164602</td>
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<td>2nd</td>
<td>May 2017</td>
<td>RP 1646: Safe Work Practices for Contractors Working at Retail Petroleum/Convenience Facilities</td>
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<td>B20002</td>
<td>Free</td>
<td>1st</td>
<td>February 1992</td>
<td>Publ 1830: National Used Oil Collection Study</td>
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<td>B18301</td>
<td>$63.00</td>
<td>1st</td>
<td>June 1996</td>
<td>Publ 1835: Study of Used Motor Oil Recycling in Eleven Selected Countries</td>
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<td>B18351</td>
<td>$65.00</td>
<td>1st</td>
<td>November 1997</td>
<td>RP 1646: Safe Work Practices for Contractors Working at Retail Petroleum/Convenience Facilities</td>
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*These translated versions are provided for the convenience of our customers and are not officially endorsed by API. The translated versions shall neither replace nor supersede the English-language versions, which remain the official standards. API shall not be responsible for any discrepancies or interpretations of these translations. Translations may not include any addenda or errata to the document. Please check the English-language versions for any updates to the documents.
**RP 1004**

**Bottom Loading and Vapor Recovery for MC-306 & DOT-406 Tank Motor Vehicles**

Provides an industry standard for bottom loading and vapor recovery of proprietary and hired carrier DOT MC-306 tank vehicles at terminals operated by more than one supplier. Guides the manufacturer and operator of a tank vehicle as to the uniform features that should be provided to permit loading of a tank vehicle with a standard 4-in. adapter. This edition of RP 1004 requires an independent secondary control system and maximum requirements for outgange in the tank to allow the secondary control system to function. Pages: 21


2-Year Extension: January 2018

Product Number: A10048 | Price: $120.00

**RP 1007**

**Loading and Unloading of MC 306/DOT 406 Cargo Tank Motor Vehicles**

Ensuring the safe and efficient loading and delivery of petroleum products to retail service stations and bulk facilities is the primary goal for all companies that transport product. This document is a guideline for use by the truck driver and persons responsible for loading and unloading of MC306/DOT406 cargo tanks. It identifies specific steps to ensure that product can be loaded into tank trucks and unloaded into both underground and aboveground storage tanks in a safe and efficient manner that protects the environment. It is intended to be used in conjunction with existing driver training programs and procedures. Pages: 24


2-Year Extension: January 2018

Product Number: A10071 | Price: $42.00

**RP 1112**

**Developing a Highway Emergency Response Plan for Incidents Involving Hazardous Materials**

Provides minimum guidelines for developing an emergency response plan for incidents involving hazardous liquid hydrocarbons, such as gasoline and crude oil, transported in MC 306/DOT 406 and MC 307/DOT 407 aluminum cargo tanks, and for coordinating and cooperating with local, state, and federal officials. Covers response plan priorities, personnel training, special equipment, media relations, environmental relations, and post-response activities. The appendixes outline a highway emergency response plan and suggest a procedure for removing liquid hydrocarbons from overturned cargo tanks and righting the tank vehicles. Pages: 21


2-Year Extension: January 2018

Product Number: A11123 | Price: $82.00

**MOTOR OILS AND LUBRICANTS**

**Motor Oil Shelf Cards**

This two-page laminated guide helps consumers understand the API Engine Oil Quality Marks—the API Certification Mark, “Starburst,” and Service Symbol, “Donut,” and the API Service Categories. Shelf Cards are available in English and Spanish and can be personalized with a company logo. For information on personalizing the shelf cards, call 202-682-8156.

Single copies free on request from API (eolcs@api.org or (202)-682-8516)

**API 1509**

**Engine Oil Licensing and Certification System**

(amed July 10, 2019)

Describes the API Engine Oil Licensing and Certification System (EOLCS), a voluntary licensing and certification program designed to define, certify, and monitor engine oil performance deemed necessary for satisfactory equipment life and performance by vehicle and engine manufacturers. Engine oil marketers that meet EOLCS requirements may be licensed to display one or more of the API Engine Oil Quality Marks.
exclusively from wheeled vehicles (i.e., tank trucks or railroad tank cars); and
tanks covered by OSHA 29 CFR 1910.119 and EPA 40 CFR 68, or similar
regulations. Pages: 75
5th Edition | September 2020
Product Number: K235005 | Price: $135.00

HEALTH, ENVIRONMENT, AND SAFETY: WATER

Publ 1628
Risk-Based Decision Making
Discusses risk-based decision making approaches used for the assessment
of hazardous conditions. Also presents information that can be utilized to
focus remedial measures and funds on petroleum hydrocarbon release sites
while being protective of human health and the environment, and to facilitate
timely closure of hydrocarbon-impacted sites. Pages: 13
1st Edition | July 1996 | Product Number: A1628B | Price: $64.00

Publ 1628C
Optimization of Hydrocarbon Recovery
Covers the optimization, in its broadest sense, to achieve an environmentally
sound site closure in the appropriate timeframe for the least cost (to
maximize efficiency of the selected system). Pages: 20

Publ 1628D
In-Situ Air Sparging
Addresses in-situ air sparging. Covers remediation technologies, starting with
the early techniques of containment or mass reduction through today’s very
aggressive site closure techniques. Addresses containment as well as
residual petroleum hydrocarbon compounds. Pages: 13

Publ 1628E
Operation and Maintenance Considerations for Hydrocarbon Remedia tion Systems
Discusses concepts regarding operation and maintenance procedures
necessary to achieve and maintain optimal performance of petroleum
hydrocarbon remediation systems. Pages: 23
1st Edition | July 1996 | Product Number: A1628E | Price: $64.00

Publ 1629
Guide for Assessing and Remediating Petroleum Hydrocarbons in Soils
This publication provides information regarding the site and release
characteristics relevant to, and methods for assessing and remediating, soils
contaminated with petroleum hydrocarbons released from underground or
aboveground storage tank systems and operations. Developed to complement Publ 1628, which focuses primarily on assessing and
remediating petroleum releases that may impact groundwater. Pages: 81

SECURITY

Std 1164 ■
Pipeline Control Systems Cybersecurity
(includes Errata 1 dated August 2021)
Provides requirements and guidance for managing cyber risk associated with
industrial automation and control (IAC) environments to achieve security,
integrity, and resiliency objectives. This is accomplished through proper
isolation of IAC environments from non-IAC environments to help IAC
operational continuity. This standard is tailored for the oil and natural gas
(ONG) pipeline industry, which includes, but is not limited to, natural gas
and hazardous liquid transmission pipeline systems, natural gas distribution
pipeline systems, liquefied natural gas (LNG) facilities, propane air facilities,
and others involved in these industries. This standard was developed to
provide an actionable approach to protect IAC essential functions by
managing cybersecurity risk to IAC environments. IAC environments can
include, but are not limited to, supervisory control and data acquisition
(SCADA), local control, and industrial internet of things (IIoT) solutions. This
standard should be used in the context of developing, implementing,
maintaining, and improving an IAC cybersecurity program, which includes the
policies, processes, and procedural and technical controls for IAC cyber
environments. Pages: 142
3rd Edition | August 2021 | Product Number: D11043 | Price: $198.00