

Api manual of petroleum measurement standards chapter 8

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What is the API 21.1 standard? API 21.1 is an international standard that describes the minimum specifications for gas measurement systems of hydrocarbon and other related gases. It attempts to practically minimize the uncertainties associated with electronic recording and storage of gas measurement data.

What is the API standard for flow meter calibration? The API standards require run repeatability no higher than 0.02% for five consecutive runs and 0.02% deviation between meter factor averages for the pre and post runs sets at the same flow rate.

What is API measurement in oil and gas? API Gravity, developed by the American Petroleum Institute, measures how heavy or light oil is compared to water. It is expressed in degrees: Water: 10° API. Light Oil: More than 10° API (floats on water).

What is the current API standard? API Introduces Three New Gasoline Engine Oil Standards, ILSAC GF-6A, GF-6B, and API SP. API's Lubricants Standards Group approved by letter ballot the adoption of two new ILSAC specifications, GF-6A and GF-6B, and a new API Service Category, API SP.

What is the difference between API 521 and API 2000? API 2000 is the most commonly used standard for the calculation of pressure relief in tanks. API 520 and 521 are aimed more towards pressure vessels than low-pressure tanks.

How often should flow meters be calibrated? Recalibrate flow meters either biennially (every 2 years) or at the minimum frequency specified by the manufacturer. Flow meter readings are to be corrected for pressure, temperature and, if necessary, moisture content.

What are the standards for flow meter calibration? A normal flow calibration includes five different flows, with five averages of the meter readings and the standard flow made at each set point, with this entire test sequence repeated on a second occasion to assess reproducibility.

Who can calibrate a flow meter? Badger Meter offers the calibration products and services necessary to maintain accuracy of these precision instruments.

What is the API formula for oil? API gravity is gradated in degrees on a hydrometer instrument and was designed so that most values would fall between 10° and 70° API gravity. The arbitrary formula used to obtain this effect is: API gravity = $(141.5/SG \text{ at } 60 \text{ degF}) - 131.5$, where SG is the specific gravity of the fluid.

What is the API range of a heavy crude? The higher the API gravity, the lighter the compound. Light crudes generally exceed 38 degrees API and heavy crudes are commonly labeled as all crudes with an API gravity of 22 degrees or below. Intermediate crudes fall in the range of 22 degrees to 38 degrees API gravity.

How do you calculate API? $141.5 \div \text{Specific Gravity} - 131.5 = \text{API Gravity}$ API gravity can also tell us whether the fluid will float or sink in the water. If API gravity is less than 10 it will sink in water; higher than 10 and it will float.

What is the latest API standard? As of 2020 API SP is the latest specification. It supersedes API SN. SP specifies more stringent engine oil performance requirements for spark-ignited internal combustion engines. These include a chain wear test and a test for very low-viscosity engine oils.

What is the most common API protocol?

What does the W stand for in oil? The “W” that you see on oil labels stands for the word "Winter" because this portion of the label shows the viscosity level of oil when an engine is cold. Motor oil that is thinner can flow more easily and faster. This is important because when you start a cold engine, the oil needs to lubricate the equipment quickly.

What causes overpressure in API 521? The failure of electrical or mechanical equipment that provides cooling or condensation in process streams can cause

overpressure in process vessels. Fans on air-cooled heat exchangers or cooling towers occasionally become inoperative because of a loss of power or a mechanical breakdown.

What is API 521 used for? American Petroleum Institute (API) Standard 521 “Pressure Relieving and Depressuring Systems” is an internationally recognized engineering standard used to design pressure relief systems, disposal systems (e.g., flares), and depressuring systems (ANSI/API Standard 521, 2013).

What is API 2000 used for? This standard covers the normal and emergency vapor venting requirements for aboveground liquid petroleum or petroleum products storage tanks and aboveground and underground refrigerated storage tanks designed for operation at pressures from full vacuum through 103.4 kPa (ga) (15 psig).

What is API level 21? Android 3.0 - 3.2 (Honeycomb) (API levels 11-13) - Android made for tablets. Android 4.0 - 4.4 (KitKat) - (API levels 14-19) - A big merge with tons of additional functionality, totally revamped Android version, for both phone and tablets. Android 5.0 - 5.1 (Lollipop) - (API levels 21-22) - Material Design introduced.

What is the API standard used for? API standards cover important topics such as safety, quality control, performance specifications and help define industry best practices. API standards are also of great international importance. These standards facilitate harmonization between companies operating in different countries.

What is the HL7 API standard? APIs and HL7 standards can help healthcare organizations to meet regulatory compliance by providing secure access and sharing of patient data. This way, healthcare organizations comply with regulations such as the Health Insurance Portability and Accountability Act (HIPAA), which protects patient privacy.

What is the API standard for pressure vessel inspection? API offers a 510 certification through their Individual Certification Program. The purpose of the certification is to identify individuals that possess broad knowledge in maintenance, inspection, repair, and alteration of pressure vessels.



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