

Density, Relative Density, or API Gravity of Liquid Petroleum by Portable Digital Density Meter

test method

For determination of the density, relative density, or API gravity of liquid petroleum products using portable digital density meters at test temperatures between 0 and 40°C (32 to 104°F). Its application is restricted to samples with a dry vapor pressure equivalent up to 80 kPa (11.6 psi) and a viscosity below 100 mm² /s (cSt) at the test temperature.

portable digital density meter

- Density measurement of crude oil, fuel oil and lubricant oil.
- Oscillation method is specified in ASTM D7777
- Density or Brix measurement of various beverages such as milk, soft drink, fruit drink, etc.
- Measurement of alcohol or extract concentration of beer, whisky, wine, shochu(Japanese distilled alcohol), Japanese sake (fermented alcohol), etc.
- Measurement of Brix or constituent concentration of food materials for quality control purposes.
- Density or SG measurement of oils and fats such as vegetable oil, animal fat and oil, etc.
- Conforming to Japanese Pharmacopoeia.
- Concentration check of etching solution or acid pickling solution for electronic parts.
- Concentration check of flux or plating solution

ordering information

catalog no.	description
K86310	Portable Digital Density Meter
K86310-1	Calibration Fluid, Water, 0.99821 g/cm ³ , 10 mL, pk/2
K86310-2	Calibration Fluid, Dichlorotoluene/Water, 1.249 g/cm ³ , 10 mL



K86310 Portable Digital Density Meter

specifications

Conforms to the specifications of:
ASTM D7777
Measuring Method: Resonant Frequency Oscillation
Measuring Range: 0.0000 to 2.0000 g/cm³
Accuracy: ± 0.001 g/cm³
Temperature Range: 0 to 40.0 °C
Temperature Resolution: 0.1 °C
Data Storage: Up to 1,100 samples
Power Supply: Alkaline battery LR03 (AAA) 1.5V 2pcs
Battery Life: Approx. 90 hours
Weight: Approx. 360 g (0.794 lbs)
Dimensions (LxWxH): 15.5x11.5x6.5" (37x29x16 cm)