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PRODUCTS 

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Products

Method 

Application
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Category 

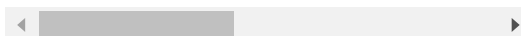
Product ▶
Specification

FEATURED PRODUCTS



Density, Relative Density (Specific Gravity), or API Gravity Accessories

✉ Email Colleague



Description

Density, Relative Density (Specific Gravity), or API Gravity Accessories

ASTM Hydrometers

For density, relative density (specific gravity) or API gravity determination of crude petroleum, liquid petroleum products and mixtures of petroleum and non-petroleum products.

(<https://koehlerinstrument.com/products/automatic-pensky-martens-cup-flash-point-tester/>)

Automatic Pensky-Martens Cup Flash Point Tester
(<https://koehlerinstrument.com/products/automatic-pensky-martens-cup-flash-point-tester/>)

Specifications

Conforming to the specifications of: ASTM
E100

Applicable Test Method Standards:

ASTM D287, D1298, D6074, D6158; API MPMS
Chapter 9.1; IP 160; ISO 3675; DIN 51757

API Gravity Hydrometers

Standard temperature 60°F, subdivisions 0.1°
API, length 330mm

Catalog No.	ASTM Hydrometer No.	Nominal API Gravity Range, deg.
251-000-01H	1H	-1 to +11
251-000-02H	2H	9 to 21
251-000-03H	3H	19 to 31
251-000-04H	4H	29 to 41
251-000-05H	5H	39 to 51
251-000-06H	6H	49 to 61
251-000-07H	7H	59 to 71
251-000-08H	8H	69 to 81
251-000-09H	9H	79 to 91
251-000-10H	10H	89 to 101

Specific Gravity Hydrometers

Standard temperature 60/60°F, subdivisions

0.0005, length 330mm

Catalog No.	ASTM Hydrometer No.	Nominal Specific Gravity Range
251-000-82H	82H	0.650 to 0.700
251-000-83H	83H	0.700 to 0.750
251-000-84H	84H	0.750 to 0.800
251-000-85H	85H	0.800 to 0.850
251-000-86H	86H	0.850 to 0.900
251-000-87H	87H	0.900 to 0.950
251-000-88H	88H	0.950 to 1.000
251-000-89H	89H	1.000 to 1.050
251-000-90H	90H	1.050 to 1.100

API Gravity Hydrometers

Standard temperature 60°F, subdivisions, 0.1°

API, length 330mm

Catalog No.	ASTM Hydrometer No.	Nominal API Gravity Range, deg.
251-000-21H	21H	0 to 6
251-000-22H	22H	5 to 11
251-000-23H	23H	10 to 16
251-000-24H	24H	15 to 21
251-000-25H	25H	20 to 26
251-000-26H	26H	25 to 31
251-000-27H	27H	30 to 36
251-000-28H	28H	35 to 41
251-000-29H	29H	40 to 46
251-000-30H	30H	45 to 51
251-000-31H	31H	50 to 56
251-000-32H	32H	55 to 61
251-000-33H	33H	60 to 66
251-000-34H	34H	65 to 71
251-000-35H	35H	70 to 76
251-000-36H	36H	75 to 81
251-000-37H	37H	80 to 86
251-000-38H	38H	85 to 91
251-000-39H	39H	90 to 96
251-000-40H	40H	95 to 101

**API Gravity Thermohydrometers -
Thermometer in Body**

Standard temperature 60°F, subdivisions 0.1°

API, length 380mm, thermometer scale °F 0-150 (designation L), 30 to 180 (designation M), 60 to 220 (designation H)

Catalog No.	ASTM Hydrometer No.	Nominal API Gravity Range, deg.
251-000-51HH	51HH	-1 to 11
251-000-51HL	51HL	-1 to 11
251-000-52HH	52HH	9 to 21
251-000-52HL	52HL	9 to 21
251-000-53HM	53HM	19 to 31
251-000-53HL	53HL	19 to 31
251-000-54HM	54HM	29 to 41
251-000-54HL	54HL	29 to 41
251-000-55HL	55HL	39 to 51
251-000-56HL	56HL	49 to 61
251-000-57HL	57HL	59 to 71
251-000-58HL	58HL	69 to 81
251-000-59HL	59HL	79 to 91
251-000-60HL	60HL	89 to 101

API Gravity Thermohydrometers - Thermometer in Stem

Standard temperature 60°F, subdivisions 0.1°
API, length 380mm, temperature scale °F 30-220

Catalog No.	ASTM Hydrometer No.	Nominal API Gravity Range, deg
251-000-71H	71H	-1 to 11
251-000-72H	72H	9 to 21
251-000-73H	73H	19 to 31
251-000-74H	74H	29 to 41

Specific Gravity Hydrometers

Standard temperature 60/60°F, subdivisions
0.001 length 260mm

Catalog No.	ASTM Hydrometer No.	Nominal Specific Gravity Range
251-000-102H	102H	0.650 to 0.700
251-000-103H	103H	0.700 to 0.750
251-000-104H	104H	0.750 to 0.800
251-000-105H	105H	0.800 to 0.850
251-000-106H	106H	0.850 to 0.900
251-000-107H	107H	0.900 to 0.950

Array		
251-000-108H	108H	0.950 to 1.000
251-000-125H	125H	1.000 to 1.050
251-000-126H	126H	1.050 to 1.100
251-000-127H	127H	1.100 to 1.150
251-000-128H	128H	1.150 to 1.200
251-000-129H	129H	1.200 to 1.250
251-000-130H	130H	1.250 to 1.300
251-000-131H	131H	1.300 to 1.350
251-000-132H	132H	1.350 to 1.400
251-000-133H	133H	1.400 to 1.450
251-000-134H	134H	1.450 to 1.500
251-000-135H	135H	1.500 to 1.550
251-000-136H	136H	1.550 to 1.600
251-000-137H	137H	1.600 to 1.650

Array

251-000-138H	138H	1.650 to 1.700
251-000-139H	139H	1.700 to 1.750
251-000-140H	140H	1.750 to 1.800
251-000-141H	141H	1.800 to 1.850

ASTM Metric Thermohydrometers

Standard temperature 15°C, subdivisions

0.5kg/m³, length 380mm, thermometer scale

°C: -20 to +65 (designation L), 0 to 85

(designation M), 20 to 105 (designation H).

Catalog No.	ASTM Thermohydrometer No.	Density, Range kg/m ³
251-000- 300HL	300HL	600 to 650
251-000- 301HL	301HL	650 to 700
251-000- 302HL	302HL	700 to 750
251-000- 302HM	302HM	700 to 750
251-000- 303HL	303HL	750 to 800
251-000- 303HM	303HM	750 to 800

Array		
251-000-304HL	304HL	800 to 850
251-000-304HM	304HM	800 to 850
251-000-305HL	305HL	850 to 900
251-000-305HM	305HM	850 to 900
251-000-306HL	306HL	900 to 950
251-000-306HM	306HM	900 to 950
251-000-307HL	307HL	950 to 1000
251-000-307HH	307HH	950 to 1000
251-000-308HH	308HH	1000 to 1050
251-000-308HL	308HL	1000 to 1050
251-000-309HH	309HH	1050 to 1100
251-000-309HL	309HL	1050 to 1100

Hydrometer Cylinders

Catalog No.	Construction	Dimensions diaxh.
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K26300	Brass	212 x12" (64x305mm)
K26390	Brass	2x15" (51x381mm)
332-002-011	Glass	2x15 1/2" (51x394mm)



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Penetration
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