

U.S.A

STANDARDIZED HYDROMETERS

A.S.T.M, °API ...



■ **A.S.T.M.** is an American standard. These hydrometers are manufactured according to the standards from the last ASTM E100 Committee of the **AMERICAN SOCIETY FOR TESTING AND MATERIAL**.

■ **Scale**
The scale of the hydrometer is fully marked with all the reference norms, the calibration temperature, the superficial tensions, the individual number of the instrument, the serial number and the logo.

When an **ASTM** hydrometer has an equivalent **ISO 650** hydrometer, both standards are printed on the back of the instrument.



The link of our page www.allafrance.com/help.html is printed on the body of our hydrometers and accessible to the user. This page answers most metrological questions asked and allows you to limit repetitive questions to your Customer Service, while being a solid support for your sales force.

■ **Benchmark**
Engraved on the stem to show any displacement of the scale (see page 8).

■ **Calibration and Certificates**
Our official masters are regularly controlled and are traceable in over 68 countries worldwide (see page 5).

More information about the signatory countries on <http://www.european-accreditation.org/content/mila/scopes.htm>

Systematically delivered with a Traceability and Conformity Certificate



Available, upon request with an ALLA FRANCE Traceable Calibration Certificate, or an Official Calibration Certificate controlled by an accredited European Laboratory (see pages 4-5 for more information about Certificates).

A.S.T.M. E100
SPECIFIC GRAVITY HYDROMETERS (Sp.Gr)

Reading below meniscus.



Official or Traceable Calibration Certificate upon request

D 026 Low surface tension (16 at 35 mN/m)

Temp.	60/60°F	Series	Range Sp.Gr
Division	0.0005 Sp.Gr	82H62	0.650 - 0.700
		83H62	0.700 - 0.750
		84H62	0.750 -
Accuracy	0.0005 Sp.Gr	↓	↓
		90H62	1.050 - 1.100
Length	335 mm		

D 027 Medium surface tension (55 mN/m)

Temp.	60/60°F	Series	Range Sp.Gr
Division	0.0005 Sp.Gr	98H62	0.950 - 1.000
		111H62	1.000 - 1.050
		112H62	1.050 -
Accuracy	0.0005 Sp.Gr	↓	↓
		120H62	1.450 - 1.500
Length	335 mm		

D 028 Medium and high surface tension

Temp.	60/60°F	Series	Range Sp.Gr
Division	0.001 Sp.Gr	102H62	0.650 - 0.700
		103H62	0.700 - 0.750
		104H62	0.750 -
Accuracy	0.001 Sp.Gr	↓	↓
		141H62	1.800 - 1.850
Length	270 mm		

A.S.T.M. E100 °API
PETROLEUM INDUSTRY

They are calibrated for a low surface tension (between 16 and 35 mN/m).

Reading below meniscus.



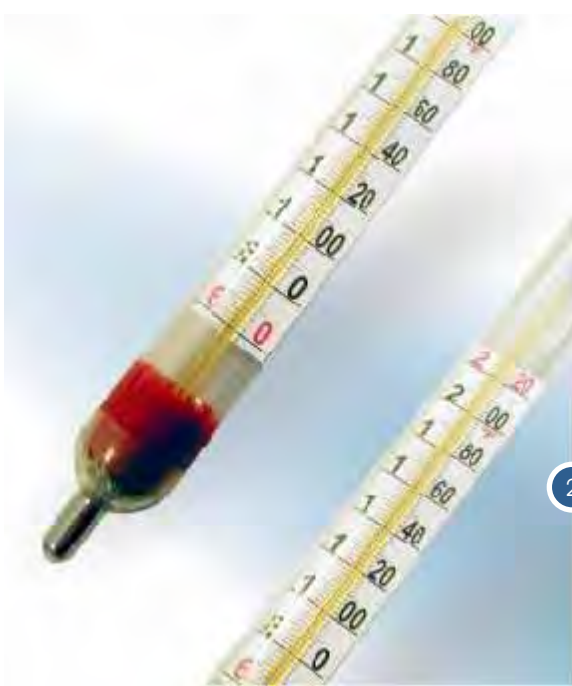
Official or Traceable Calibration Certificate upon request

D 029

Temp.	60/60°F	Series	Range °API
Division	0.1 °API	1H62	-1 - 11
		2H62	9 - 21
Accuracy	0.1 °API	↓	↓
		9H62	79 - 91
		10H62	89 - 101
Length	335 mm		

D 030

Temp.	60/60°F	Series	Range °API
Division	0.1 °API	21H62	0 - 6
		22H62	5 - 11
Accuracy	0.1 °API	↓	↓
		39H62	90 - 96
		40H62	95 - 101
Length	168 mm		



Thermometer in the body : 2°F

D 031 0+150°F (or) +30+180°F (or) +60+220°F

Temp.	60/60°F	Series	Range °API
Division	0.1 °API	41H62	15 - 23
		42H62	22 - 30
Accuracy	0.1 °API	↓	↓
		59H62	79 - 91
		60H62	89 - 101
Length	387 mm		

D 032 Thermometer in the stem : 2°F +30+220°F

Temp.	60/60°F	Series	Range °API
Division	0.1 °API	71H62	-1 - 11
		72H62	9 - 21
Accuracy	0.1 °API	73H62	19 - 31
		74H62	29 - 41
Length	387 mm		

- A.S.T.M. E100**
PETROLEUM INDUSTRY
Canadian Government Agreement
 They are calibrated for a low surface tension (between 16 and 35 mN/m).
 Reading below meniscus.



Official or Traceable Calibration Certificate upon request

D 033 ①

Temp.	15°C	Series	Range kg/m ³
Division	0.5 kg/m ³	311H 312H	600 - 650 650 -
Accuracy	0.5 kg/m ³	↓	↓
Length	330 mm	319H 320H - 1 050 1 050 - 1 100

With thermometer in the body : 1°C
 -20+65°C (or) 0+85°C (or)+20+105°C ②

D 034

Temp.	15°C	Series	Range kg/m ³
Division	0.5 kg/m ³	300H 301H	600 - 650 650 -
Accuracy	0.5 kg/m ³	↓	↓
Length	380 mm	308H 309H - 1 050 1 050 - 1 100



- A.S.T.M. D 422 (E100)**
SOIL HYDROMETERS
 They are calibrated for medium surface tension (55 mN/m)
 Reading below meniscus.

D 038 ③

Temp.	68/68°F	Series	Range Sp.Gr
Division	0.001 Sp.Gr		
Accuracy	0.001 Sp.Gr	151H62	0.995 - 1.038
Length	280 mm		

D 039

Temp.	68°F	Serie	Range g/l
Division	1 g/l		
Accuracy	1 g/l	152H62	-5 +60
Length	280 mm		

- A.S.T.M. D287 - A.S.T.M. E100**
OIL AND GAS INDUSTRY
 These instruments are designed for the control of gas, such as butane and propane.
 They are calibrated for a low surface tension (between 16 and 35 mN/m).
 Reading below meniscus.

D 035 **A.S.T.M. D287** (specific gravity)

Temp.	60/60°F	Series	Range Sp.Gr
Division	0.001 Sp.Gr or 0.0005 Sp.Gr	D-050 D-057	0.500 - 0.580 0.570 - 0.650
Length	330 mm		

D 036 **A.S.T.M. E100** (specific gravity)
with thermometer: +30+60°F - HG

Temp.	60/60°F	Serie	Range Sp.Gr
Division	0.001 Sp.Gr	101H62	0.500 - 0.650
Length	387 mm		

D 037 **A.S.T.M. E100**
with thermometer: 0+35°C - HG

Temp.	15 °C	Serie	Range kg/m ³
Division	1 kg/m ³	310H	500 - 650
Longueur	387 mm		

