

DENSITY AND TEMPERATURE MEASUREMENT

Hydrometers and Thermometers.

We stock an extensive range of oil company approved and JIG compliant high quality hydrometers, thermometers and ancillaries for checking the density and temperature of hydrocarbon fuels. Thermometers are all in accordance with IP/ASTM standards, and hydrometers are all in accordance with BS718M50SP. The following table illustrates our main stock items but other ranges are available on request. A manufacturer's Certificate Of Conformity is supplied with each instrument as standard, but a full UKAS calibration certificate is available at extra cost. A UKAS calibration certificate is required when the instrument is to be used as a reference master against which working instruments are checked on site.

Thermometer UKAS Certificate. Part number 0902000083.
Hydrometer UKAS Certificate. Part number 0902000097.

There is an increasing preference for using blue spirit to replace Mercury in thermometers. The blue spirit thermometers are non hazardous, environmentally friendly and are much easier to read than the Mercury equivalents. It is also possible to send them by courier or airfreight without special packaging and hazardous products documentation. Our blue spirit thermometers are all fully IP/ASTM approved, with the same level of certification and quality control as the equivalent Mercury instruments, and we strongly recommend their use.



Type	Range	Increments	Length	Comments	Part No
Hydrometer BS718 M50SP @15 degC	SG 0.775-0.825	SG 0.001	270 mm	Jet A1	0902000090
Hydrometer BS718 M50SP @ 15 degC	SG 0.700-0.750	SG 0.001	270 mm	Avgas	0902000091
Hydrometer BS718 M50SP @ 15 degC	SG 0.750-0.800	SG 0.001	270 mm		0902000092
Hydrometer BS718 M50SP @ 15 degC	SG 0.800-0.850	SG 0.001	270 mm		0902000093
Hydrometer BS718 M50SP @ 15 degC	SG 0.850-0.900	SG 0.001	270 mm		0902000094
Thermometer ASTM12C/IP64C	-20 to +102 degC	0.2 degC	425 mm	Mercury filled	0902000080
Thermometer ASTM12C/IP64C	-20 to +102 degC	0.2 degC	425 mm	Blue Spirit filled	0902000080A
Thermometer IP49C	-15 to +40 degC	0.5 degC	315 mm	Mercury filled	0902000081
Thermometer IP49C	-15 to +40 degC	0.5 degC	315 mm	Blue Spirit filled	0902000081A
Thermometer IP 53C	0 to +80 degC	0.5 degC	315 mm	Mercury filled	0902000100
Thermometer IP 53C	0 to +80 degC	0.5 degC	315 mm	Blue Spirit filled	0902000100A
Thermometer Protective Sheath	Chromium plated Brass construction, suitable for ASTM12/IP64C				0902000085
Thermometer Protective Sheath	Chromium plated Brass construction, suitable for IP49C and IP53C				0902000086

ACCESSORIES FOR DENSITY AND TEMPERATURE MEASUREMENT

We offer a range of accessories to complement our hydrometer and thermometer stocks, as follows.

Glass Hydrometer Jar.

65mm diameter by 350mm long with pouring spout, not graduated. Capacity 925ml.
Part Number 0902000099.

Plastic Hydrometer Jar.

55mm diameter by 345mm long, transparent, with pouring spout, graduated. Capacity 500ml.
Part Number 0902000098.



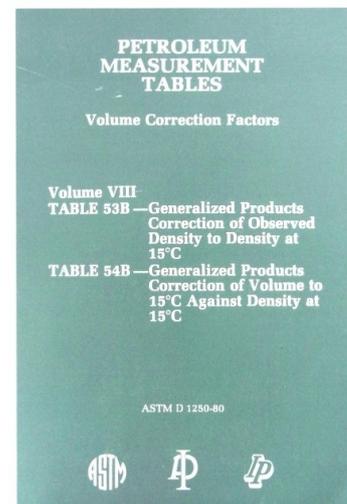
6002107300

Plastic Hydrometer Jar.

43mm diameter by 370mm long, opaque. This unit is filled to the brim with fuel, and fuel is allowed to spill over into the catchment rim. The hydrometer reading is therefore taken at the fuel surface not through glass or plastic so avoids distortion of the reading. Capacity (full) 575ml.
Part Number 6002107300.

Density Correction Tables.

Petroleum Measurement Tables Volume VIII tables 53B and 54B, to allow the density readings to be corrected back to a standard temperature.
Part Number 0904000092.



Density Correction Disc.

This is intended as a working device to be used for day to day density correction, it performs the same function as the density correction tables but is more robust and resistant to normal operational wear and tear.
Part Number 60022727EF.

