

HYDROMETERS FOR DISTILLED SPIRITS

These hydrometers are only suitable for use in mixtures of water and ethanol such as distilled spirits. If the mixture contains anything else such as sugar, you cannot determine alcohol content using a hydrometer reading. In order to accurately determine alcohol content of spirits, you will need to take accurate hydrometer and thermometer readings and use the official tables to calculate the % alcohol content. It is not possible to get an accurate measure of alcohol content direct from a hydrometer reading. All are calibrated specifically for use in ethanol solutions. Alcohol Hydrometers are graduated to read liquid density at 20°C, while alcoholometer and spirit safe hydrometers are graduated to read % ethanol by volume at 20°C. Please note that since the density of the liquid decreases as the percentage of ethanol increases, alcoholometers reading % ethanol have scales going in the opposite direction to other hydrometers!

BS5470 ALCOHOL HYDROMETERS

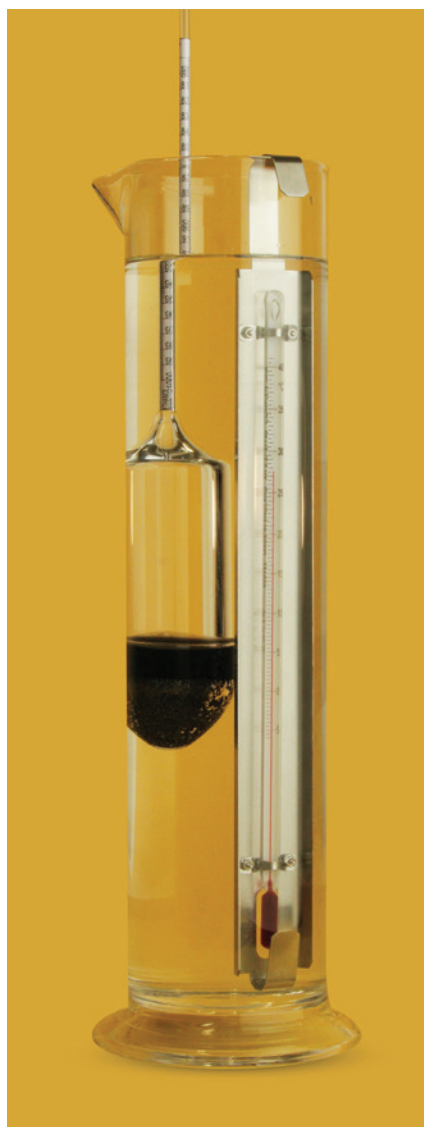
Range: 20 kg/m³ density at 20°C in 0.2 graduations
Size: 305mm long x 38mm wide

These are very precise alcohol hydrometers and have graduations to a certified accuracy of 0.2 kg/m³ density. They are made to the official BS5470 specification and are kitemarked giving an assurance that our hydrometers always meet that high standard. They are suitable for HMRC declarations of the alcohol content of spirits according to The Spirits Regulations (1991). These are also suitable for use as reference instruments if you want to check the accuracy of other alcohol hydrometers when supplied with UKAS calibration certificates or our own works certificates with precise correction values at two or three points on the scale.

ACCURACY: ★★★★★

PRICE: £62.00

Product Code	Density Range	Approx. ABV
AB3030/780	780 to 800	Over 97.8%
AB3030/800	800 to 820	92.7% to 97.8%
AB3030/820	820 to 840	86.6% to 92.7%
AB3030/840	840 to 860	79.7% to 86.6%
AB3030/860	860 to 880	72.2% to 79.7%
AB3030/880	880 to 900	64.0% to 72.2%
AB3030/900	900 to 920	55.0% to 64.0%
AB3030/920	920 to 940	44.7% to 55.0%
AB3030/940	940 to 960	31.7% to 44.7%
AB3030/960	960 to 980	14.1% to 31.7%
AB3030/980	980 to 1000	Up to 14.1%



DISTILLERS:

Best for ABV determination of spirits.
Suitable for HMRC.

CERTIFICATION:

Come with a certificate of accuracy to 0.2 kg/m³ density, valid for 3 years. Also suitable for UKAS or works certification showing even more precise corrections (see page 16).

USE WITH:

Hydrometer jars of at least 50mm diameter. We recommend a wider jar so that you can take simultaneous temperature readings – the BJ3480 jar is ideal for use with these and our accurate B0446 thermometers (see page 17 for the jar and page 20 for the thermometer).

Thermometers with an accuracy of 0.5°C or better (Accuracy 4* or better).

Use the Practical Alcohol Tables Volume 2 (see page 16) for alcohol determination.

Our hydrometer stand with 38mm fittings (see page 18) will let you keep a few of these handy on the bench while you are using them. Don't forget to wash and safely store them after use.

ALSO CONSIDER:

You may not need to use precise and fragile hydrometers at every point in your process. Consider using alcoholometers graduated in % alcohol during production when a simple consistent measurement is more important than an accurate determination of alcohol content.