

## Product Data Sheet: dry alcohol standards

Dry alcohol standards (DAS) are used for calibrating or checking the accuracy of breath alcohol testing instruments. They are made to order to any required value.

They have a shelf life of at least 1 year when stored in a cool, dry place. DAS are non-flammable.

DAS are made up of molecular sieve impregnated with ethanol. The charge is housed in an airtight screwtop container which is labelled with the batch number, expiration date and resulting alcohol concentration when mixed with 500 millilitres of water. A tamper-proof security seal is fitted to the lid.

Use deionised water for best results; discard solution after two weeks or 10 uses.

DAS are made to a tolerance of +/- 2%, but the ultimate accuracy is in the hands of the end user and that of the method employed for the measurement of the water added.

### Equipment needed

500 ml class A volumetric flask, simulator, supply of DAS.

### Preparation of the standard solution

1. Take the 500 ml volumetric flask and fill it to the line with deionised, distilled or tap water. The water should be close to 20°C.
2. Empty this into a dry simulator jar.
3. Remove the cap from the DAS bottle and pour ALL of the pellets into the simulator jar.
4. Remount the simulator top and tighten it down.
5. Turn the power on and allow the solution to reach working temperature and be stirred for at least a further 30 minutes.

The solution should then be ready for use and supply the stated vapour value.

13 April 2015

