

Audited measurement methods

Ethanol is completely soluble in petrol. But the solubility is being reduced by the presence of water significantly. There is a mixture of gaps and phase separation.

This effect is the basis for the measurement method of the Fuel-alk-tester I / II with precisely calibrated amount of sample and specific reagents (storable for 2 years).

With the addition of the acidified and coloured reagent in the test fuel, the reagent takes over the volume of lower alcohols and stained them with one. by Calibrated comparing the volume of the reagent (blue line on the tube) and the total volume coloured here the readings are created. The limit 1% (or 5%) is characterized by a red line.

In automotive fuel according to EN228 may not subsequently blend with ethanol / OK ETBE or MTBE be added.

This measurement method is not suitable for those applications.

MAUL & Co.

Development and manufacture of testing equipment and tank construction for the flight and Automotive Engineering

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Application

Modern European aircraft engines and cells of the design are fully proved for normal lead-free automotive fuels according to EN 228.

For E10 see specific manufacturer's instructions.

Larger American Flight piston engines use special high-leaded Aviation Fuel AVGAS 100LL (> 100 octane and lead content 0.56 g / l) and therefore special aircraft engine oils. In these cases, technically-acceptable and by STC permitted - a large proportion of these cells and engines could be operated with automotive fuel according to EN 228 while maintaining a maximum ethanol blend up to 1%. See:

http://www.daec.de/te/erteilte_emz.php

“Which fuel to fly as is, Solely written in the official flight manual - and not in any dealer recommendation!”

The responsibility for the refueling of aircraft with the fuel is shared with 50/50 -% with the operator of the tank system and the PIC. The operator must satisfy himself of the correct fuel type for the aircraft (tank sticker, STC-seal clamp AFM). The PIC has to be convinced that the product is correct and certified (eg. compliance with 1% limit).

The uncontrolled self-service operation for the refuelling of aircraft is prohibited (see operational safety regulation).

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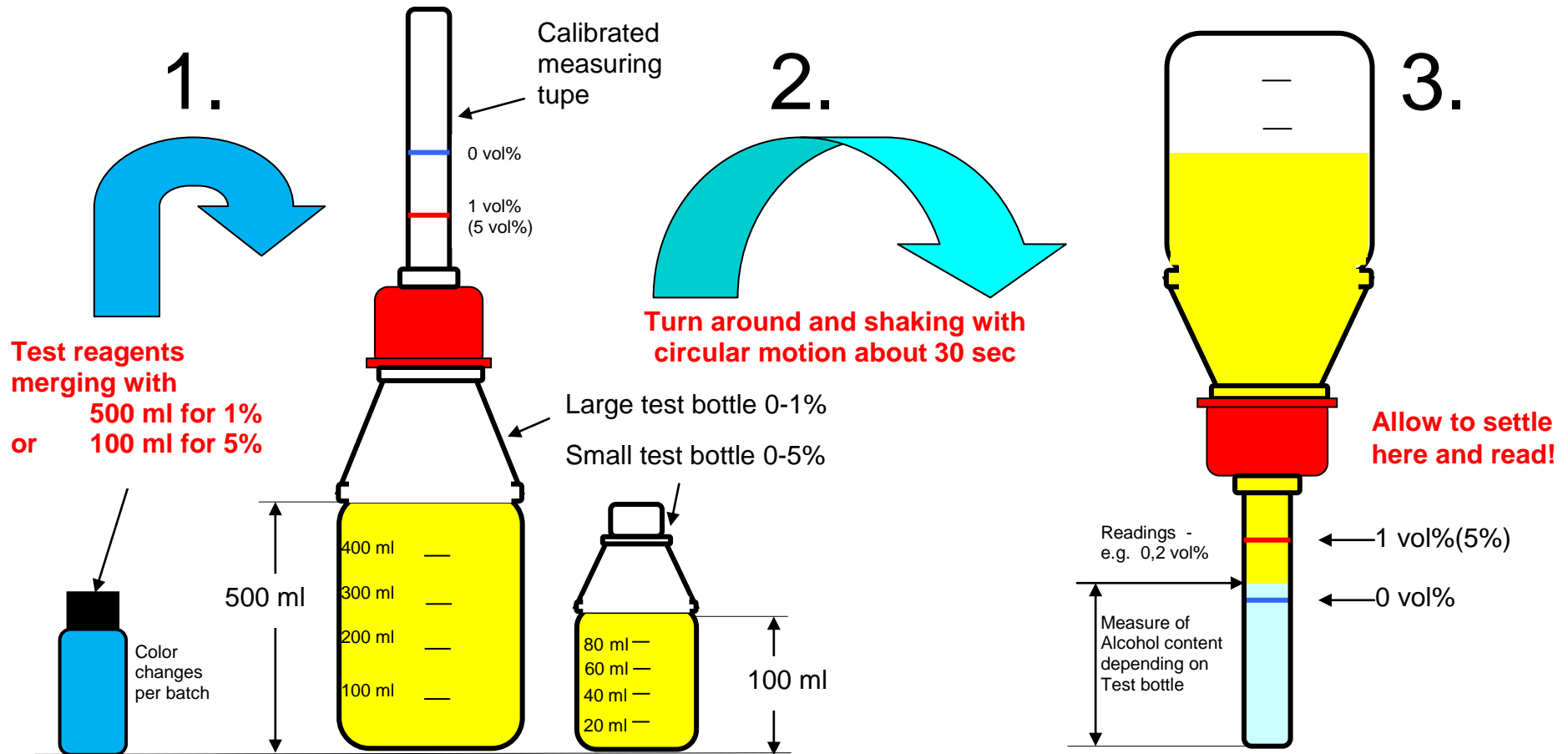
Fuel – Alk Tester I / II

Measuring ranges: 0-1 vol% / 0-5 vol%

**Test Kit for Determining the
Rate of lower alcohols**

**Especially ethanol in
automotive fuels according EN 228**

And so easy to do it!



The complete set consists of test bottle (s), measuring tube, 10 reagents, testing attestation and shock-proof aluminium case. A test report about the measurement accuracy for the test is included for any verification reasons. Replacement Reagents of 10 pieces or more can be supplied with each new expiration date. The shelf life under normal storage conditions are 2 years and is noted by a sticker on each reagent. Each series of reagents is coloured and changes applied for the tracing from batch to batch.