



# Jet-Tech Fuel Test Kit

The **Jet-Tech Fuel Test Kit** is the most accurate way to measure the density of your Fuel Mixture.

Fuel Density is expressed as either Specific Gravity (SG) or using the American Petroleum Institute (API) degree scale.

Why should we be concerned with fuel density?

In simple terms, if a fuel has a higher density then less fuel is required to maintain the optimum fuel/air ratio (therefore a smaller main jet) and similarly, when the fuel density is lower, more fuel is needed to maintain the optimum fuel/air ratio (therefore a larger main jet).

It is not unusual for various Championships to use different fuel suppliers and therefore different fuel specifications. For club racing or Championships where 'pump' fuel is specified, the product supplied by petroleum manufacturers (to the garage/gas station forecourt) can vary in SG/API considerably. It is also not unusual for manufacturers to vary the fuel specification whilst maintaining the same brand name and octane rating labels at the pump – usually due to environmental considerations. For example a 98RON Unleaded fuel that you would purchase at the pump, may have it's specification altered during the winter months without any change to the product branding.

So, given that a change in SG/API from one fuel to another or within seasonal pump fuel may impact on your jetting, it is imperative for the serious competitor to know exactly what the density of the fuel mixture he or she is using to enable the correct jetting of their carburettor for the prevailing conditions.

**Jet-Tech PRO** – the worlds leading and most accurate jetting and kart setup software - includes a facility called **Jet-Tech Fuel-Lab**. This facility enables the user to include the SG/API of their fuel mixture in the jetting, needle clip and spark-plug temperature range calculations ensuring that you are obtaining consistently, the most accurate settings for your carburettor, for the prevailing conditions, at what ever fuel/oil mixture is being used.

The **Jet-Tech Fuel Test Kit** comprises of a Gasoline Hydrometer, Digital Thermometer and PMP Test Cylinder, all contained in a protective carry case.

The **Jet-Tech Fuel Test Kit** is available exclusively from Jet-Tech Motorsport

Web: [www.rotaxjetting.com](http://www.rotaxjetting.com)

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## Specifications

### Gasoline Density Hydrometer (BS 718)

The standard BS 718 : 1991 is generally aligned with ISO 387 and ISO 649.  
Calibrated using the accepted units of density: grams per milliliter (g/ml).  
Range Span 0.100g/ml  
Length = 250mm  
Divisioned in 0.002 g/ml, adjusted at 20°C

### Digital Thermometer (out of sleeve to display probe)

Functions:  
Max / Min  
Display in °C and °F  
Auto Off After 60 Minutes  
Completely Waterproof  
Complete with probe cover with a pocket clip

### Specification:

Range: -50°C to +150°C  
Accuracy: ±1°C in the range of -20°C to + 150°C  
Otherwise +-2°C  
Resolution: 0.1°C  
Dimensions: 20(D)\*20(W)\*200(L)mm  
Display Size: 22(L)\*9(W)mm  
Probe Size: 3.5(W)\*97(L)mm  
Thermometer Size: 188(L)mm x 24(W)mm (cover on)  
Replaceable Battery : 1 X 1.5V "G13 /A76" Size or equivalent battery.

### PMP Test Cylinder:

ISO6706 graduated cylinder in transparent PMP remains in tolerance after autoclaving at 121°C.  
Enhanced pin sharp graduations with stable hexagonal base.  
Very easy to read, as liquids have virtually no meniscus in these cylinders.  
Easy to clean.  
Precision non-drop pouring spout.  
It will maintain its tolerance, which is exactly the same as for glass measuring cylinders - Grade B, even after repeated autoclaving at 121°C.

### Protective Carrying Case:

Slimline design for easy storage  
Lightweight with integral handle and catches  
Recyclable Polypropylene  
Size 338 x 229 x 79 mm internal (L x W x H)

