

Icon Scientific FlashPoint Analyser



WHAT DOES IT DO?

The icon scientific FlashPoint Analyser measures the lowest temperature at which typically kerosene or diesel fuel will form a flammable vapour mixture with air.

The analyser heats a sample and applies a test spark to the headspace above the liquid. Delivering exceptional results, it enables you to determine the safe storage temperatures for various petroleum products.

Using sample heating and spark ignition to measure flash point, the analyser correlates well with standard laboratory tests and is immune to sulphur compounds. It is equipped with computer-controlled air and sample flow rates, positive spark detection, integral sample cooler, internal camera and electrode decoking system. These state-of-the-art features allow you to observe the spark and inspect the electrodes without having to open the explosion-proof box. The results are compatible with those produced by any standard flash point test methods, such as IP170, ASTM D92 and ASTM D93.

HOW DOES IT WORK?

The sample is pumped into a test cup and trapped within it. At a controlled rate, air is also introduced to the test cup, which is then heated. At selected intervals, a high-voltage spark is generated by electrodes positioned over the sample. When it is reached, the flash point is detected by a highly sensitive low-mass thermocouple. The sample flow is then re-established and the air flow increased, allowing the test cup to cool in preparation for the next cycle.

WHY CHOOSE THE ICON SCIENTIFIC FLASHPOINT ANALYSER?

Inbuilt sample metering pump: internal, programmable flow metering pump provides more accurate flow-rate control than traditional flowmeters.

Mass flow controller: provides programmable air flow and more accurate flow rate control than traditional flowmeters.

Inbuilt inspection facility: internal camera enables flash point observation without the need to open the explosion-proof box. This makes the whole process safer and easier to monitor.

Spark electrode cleaning system: air is blown through the electrode assembly during cooling, and the electrodes are sparked to remove any deposits that have formed. This keeps the electrodes clean and enables routine maintenance without having to open the explosion-proof box.

Return to Pressure option: where no atmospheric return point is available an internal recovery unit is available to return against back pressures up to 5 barg.

Inbuilt sample cooler: Peltier-based sample cooler to ensure that incoming sample is cooled below the flash point temperature.

Atmospheric pressure compensation: analyser results are adjusted according to atmospheric pressure as defined in the standard test methods.



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