

## AVIATION FUEL TESTS

Tests marked \* are ISO17025 accredited

TEST NAME	METHOD
Acid number of aviation turbine fuels — Colour indicator titration	IP 354
Microbiological analysis in fuels, lubricant and water samples	IP 613
Thiol (mercaptan) sulphur in light and middle distillate fuels — Potentiometric method	IP 342
Mercaptans, hydrogen sulphide, elemental sulphur and peroxides — Doctor test method	IP 30
Distillation characteristics at atmospheric pressure	IP 123
Flash point — Abel closed cup method	IP 170
Density — Oscillating U-tube method*	IP 365
Freezing point of aviation fuels — Automatic laser method	IP 529
Freezing point of aviation fuels — Manual method	IP 160
Transparent and opaque liquids — Kinematic viscosity and calculation of dynamic viscosity	IP 71
Smoke point of kerosine, manual and automated method	IP 598
Corrosiveness to copper — Copper strip test	IP 154
Thermal oxidation stability of gas turbine fuels	IP 323
Existent gum content of aviation turbine fuel — Jet evaporation method	IP 540
Aromatic hydrocarbon types in aviation fuels - HPLC method with refractive index detection	IP 436
Antioxidant (AO32) content of aviation fuel — HP LC method	IP 343
Static dissipater additive (SDA) in aviation turbine fuel — HPLC method	IP 568
Electrical conductivity of aviation and distillate fuels	IP 274
Level of cleanliness of aviation turbine fuel — Portable automatic particle counter method	IP 565
Particulate contaminant in aviation turbine fuels by laboratory filtration	IP 423
Fatty acid methyl esters (FAME), derived from biodiesel fuel, in aviation turbine fuel — GCMS with selective ion monitoring / scan detection method	IP 585
Sulphur in petroleum and petroleum products by energy dispersive x-ray fluorescence (EDXRF) spectrometry	ASTM D4294
Naphthalene hydrocarbons in aviation turbine fuels by ultraviolet (UV) spectrophotometry	ASTM D1840
Water separation characteristics of aviation turbine fuels by portable separometer	ASTM D3948
Saybolt colour of petroleum products — Saybolt chromometer method	ASTM D156
Free water and particulate contamination in distillate fuels — Visual inspection procedures	ASTM D4176 Procedure 1