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AVIATION FUEL TESTS

Tests marked * are ISO17025 accredited

TEST NAME	METHOD
Acid number of aviation turbine fuels — Colour indicator titration	IP 354
Antioxidant (AO32) content of aviation fuel — HP LC method	IP 343
Aromatic hydrocarbon types in aviation fuels - HPLC method with refractive index detection	IP 436
Corrosiveness to copper - Copper strip test	IP 154
Density — Oscillating U-tube method *	IP 365
Distillation characteristics at atmospheric pressure	IP 123
Electrical conductivity of aviation and distillate fuels	IP 274
Existent gum content of aviation turbine fuel — Jet evaporation method	IP 540
Fatty acid methyl esters (FAME), derived from biodiesel fuel, in aviation turbine fuel — GCMS with selective ion monitoring / scan detection method	IP 585
Flash point — Abel closed cup method	IP 170
Free water and particulate contamination in distillate fuels — Visual inspection procedures	ASTM D4176 Procedure 1
Freezing point of aviation fuels — Automatic laser method	IP 529
Freezing point of aviation fuels — Manual method	IP 16
Level of cleanliness of aviation turbine fuel — Portable automatic particle counter method	IP 565
Mercaptans, hydrogen sulphide, elemental sulphur and peroxides — Doctor test method	IP 30
Microbiological analysis in fuels, lubricant and water samples	IP 613
Naphthalene hydrocarbons in aviation turbine fuels by ultraviolet (UV) spectrophotometry	ASTM D1840
Particulate contaminant in aviation turbine fuels by laboratory filtration	IP 423
Saybolt colour of petroleum products — Saybolt chromometer method	ASTM D156
Smoke point of kerosene, manual and automated method	IP 598
Static dissipater additive (SDA) in aviation turbine fuel — HPLC method	IP 568
Sulphur in petroleum and petroleum products by energy dispersive x-ray fluorescence (EDXRF) spectrometry	ASTM D4294
Thermal oxidation stability of gas turbine fuels	IP 323
Thiol (mercaptan) sulphur in light and middle distillate fuels — Potentiometric method	IP 342
Transparent and opaque liquids - Kinematic viscosity and calculation of dynamic viscosity	IP 71
Water separation characteristics of aviation turbine fuels by portable separometer	ASTM D3948
Water Separation Index (WSI) - Determination of Water Separation Characteristics of Aviation Turbine Fuel by Small Scale Water Separation Instrument	ASTM D8073 (IP 624)