

# SUSTAINABLE AVIATION FUEL (SAF)



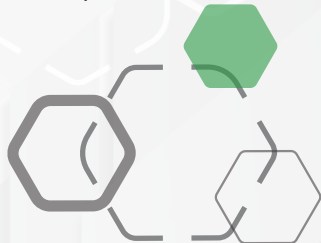
## AMSPEC IS LEADING THE WAY IN SAF ANALYSIS

AmSpec's renewable products portfolio is expanding at a rapid pace. We are making significant investments to stay ahead of the curve in terms of innovation, compliance, and sustainability, ensuring that AmSpec and our customers remain at the forefront of the industry for years to come. We are committed to offering a wide range of renewable product testing, including SAF, that aligns with our mission to reduce our global carbon footprint and promote a cleaner, more sustainable future.

# SUSTAINABLE AVIATION FUEL (SAF) TESTING, INSPECTION & CERTIFICATION

SAF, made from renewable biomass, waste, and non-traditional resources, has the potential to deliver the performance of petroleum-based jet fuel with a fraction of its carbon footprint, giving airlines solid footing for decoupling greenhouse gas (GHG) emissions from flight. Depending on the feedstock and technologies used to produce it, SAF can reduce life cycle GHG emissions dramatically compared to conventional jet fuel. Some emerging SAF pathways even have a net-negative GHG footprint.

AmSpec offers complete testing solutions for traditional and sustainable aviation fuels through our global network of certified and accredited laboratories. Take advantage of our state-of-the-art equipment and team of highly specialized laboratory professionals by partnering with us in determining full compliance with Tables 1 and 2 and the Annexes of **ASTM D7566** for Aviation Turbine Fuels Containing Synthesized Hydrocarbons, including **ASTM D2425** testing for Hydrocarbon Types by Mass Spectrometry.



## Our global network can also provide support and expertise for the following:

- ▶ Testing to show compliance with the following specifications
- ▶ ASTM D1655 Aviation Turbine Fuels and Aviation Fuels Containing Co-Processed Esters and Fatty Acids, Fischer-Tropsch Hydrocarbons, or Hydrocarbons from Esters and Fatty Acids
- ▶ ASTM D910 Leaded Aviation Gasolines
- ▶ ASTM D7547 Hydrocarbon Unleaded Aviation Gasolines
- ▶ ASTM D6227 Unleaded Aviation Gasolines Containing a Non-hydrocarbon Component
- ▶ DEFSTAN 91-90 & 91-91
- ▶ Other JP and MIL Grades
- ▶ ASTM D4054 Clearinghouse and Fast Track Protocols
- ▶ Feedstock Evaluation
- ▶ Specialty Engineering and Compliance Testing
- ▶ ASTM D6866 Radiocarbon Biobased Content
- ▶ ASTM D6378 Vapor Pressure at Various Temperatures
- ▶ ASTM D445 and ASTM D7042 Viscosity at Various Temperatures
- ▶ ASTM E659 Autoignition Temperature
- ▶ Additive Blending and Optimization



## AMSPEC'S JET AND AVIATION FUEL TESTING CAPABILITIES

- ▶ D3242 Acidity
- ▶ D86 Distillation
- ▶ D2887 Simulated Distillation
- ▶ D56 Flashpoint
- ▶ D4052 Density
- ▶ D2386 Freezing Point
- ▶ D381/IP540 Existent Gum
- ▶ IP585 FAME
- ▶ D3241 JFTOT at 325
- ▶ D2425 Hydrocarbon Composition
- ▶ D5291 Ultimate Analysis
- ▶ D4629 Nitrogen
- ▶ D6304 Water Content
- ▶ D5453 Sulfur
- ▶ D7111 Metals
- ▶ D7359 Halogens
- ▶ D5001 BOCLE Lubricity
- ▶ D445 or D7042 Viscosity @ -20C
- ▶ D445 or D7042 Viscosity @ -40C
- ▶ D6378 Vapor Pressure
- ▶ E659 Autoignition Temperature
- ▶ D7896 Thermal Conductivity vs. Temperature
- ▶ E1269 Specific Heat by Differential Scanning Calorimetry
- ▶ D1319 Aromatics (Report Actual Result)
- ▶ D3338 Net Heat of Combustion
- ▶ D613 Cetane Number
- ▶ D2624 Electrical Conductivity
- ▶ D381 Existent Gum
- ▶ D6304 Water Content
- ▶ D130 Copper Corrosion, 2 hr at 100C
- ▶ D3948 MSEP
- ▶ D1322 Smoke Point
- ▶ D6866 Carbon Dating Analysis
- ▶ Additives supporting renewable diesel and jet fuel



CONTACT US TODAY TO LEARN MORE

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