



ASTM Aviation Fuel Subcommittee Update

ASTM Aviation Fuel Subcommittee D02.J0

IATA Aviation Energy Forum
Baku, Azerbaijan

May 12-15, 2025

ASTM Aviation Fuel Subcommittee Overview



**Aviation Fuels
Subcommittee J0**
Chair: Mark Rumizen

Chair Emeritus: Stan Seto
1st Vice Chair: George Zombanakis
2nd Vice Chair: Fred Barnes
Secretary: Jack Burgazli
Ballot Secretary: Paul Wells
Membership Secretary: Ian Mylrea

**Aviation
Turbine Fuel
Section J01**
Chair: George
Wilson
Secretary: Madi
Mohtadi

**Piston Engine
Aviation Fuel
Section J02**
Chair: Enrico
Lodrigueza
Secretary:
Peter Eversley

**Synthetic
Aviation
Turbine Fuel
Section J06**
Chair: Gurhan
Andac
Secretary:
Alyssa Roche

**Combustion &
Thermal
Properties
Section J03**
Chair: Krege
Christison
Secretary: Jill
Bramer

**Additives &
Electrical
Properties
Section J04**
Chair: Melanie
Thom
Secretary:
Christina Ward

**Fuel Cleanliness
Section J05**
Chair: JP Belieres
Secretary: Joel
Schmitigal

**Fuel Specifications
(Product Sections)**

**Test Methods & Other Standards
(Functional Sections)**

Section Highlights



Aviation Turbine Fuel Section J01 Chair: George Wilson

Part 1 of 2

Subject	Standard	Lead	Under Development in Task Force	In Balloting	Completed (in ASTM Standard)
Co-Processing of Lipids; Increase % Permitted	D1655	Alisdair Clark (BP)		On-Hold	
Co-Processing of Tire Pyrolysis Oil (TPO)	D1655	Enrico Lodrigueza (Phillips66)	X		
Co-Processing of Plastic Polymer Oil	D1655	Alyssa Roche (Chevron)	X		
Co-Processing of Waste Plastics	D1655	Mike Lynch (ExxonMobil)	X		
Generic Co-Processing	D1655	Andy McDaniel (PW)	X		

Section Highlights



Aviation Turbine Fuel, Section J01

Part 2 of 2

Chair: George Wilson

Subject	Standard	Lead	Under Development in Task Force	In Balloting	Completed (in ASTM Standard)
Remove Visual Tube Rating from Thermal Stability Test	D1655	George Wilson (SwRI)		X	
Increase FAME limit to 100 ppm	D1655	Steve Howell (showell@marciv.com)	X		
Add Metal Deactivator Additive (MDA) Test Method D8545 to D1655	D1655	Nikolai Braun (Axcend)	X		

Section Highlights

Aviation Turbine Fuel

Section J01

Chair: George Wilson

- Two Standing Panels in Section J01
 - Specification Review Panel
 - Use of Test Methods in the Jet Fuel Specifications
 - Not the Test Methods Themselves
 - Jet Fuel Operational Issues
 - New Chair: Lori Taylor, [DLA Energy](#)
 - Editorial Review Panel
 - Structural/Formatting Improvements to Jet Fuel Specifications
 - Cleaning up footnotes to Table 1 property testing requirements
 - Simplify Reference Document listings by removing revision levels/versions/dates
 - Chair: Peter Eversley (Shell)

Section Highlights



Piston Engine Aviation Fuel

Section J02

Chair: Enrico Logrigueza

Subject	Standard	Lead	Under Development in Task Force	In Balloting	Completed (in ASTM Standard)
Avgas Dyes and Markings (On-going)	D7547	Alisdair Clark (BP)	X		
Renewable Iso-octane blends in Avgas	TBD	Luke Arlow (GEVO)		X	
Oxygenated Avgas Containing an Organometallic Component	TBD	Dan Pourreau (Lyondell)		X	
Spec for Oxygenated AvGas	TBD	Jon Ziulkowski (Swift Fuels)		X	
Avgas Automated Freezing Pt	D910	Michael Collier (PAC)	X		
Update Octane Rating Test Methods	D6424 D6812	Dave Atwood (FAA)	X		

Section Highlights



Combustion & Thermal Properties, Section J03

Chair: Krege Christison

Subject	Standard	Lead	Under Development in Task Force	In Balloting	Completed (in ASTM Standard)
Thermal Stability Test Reference Fluid ILS	D3241	Indresh Mathur (Haltermann)			ILS Approved
Thermal Stability Test Improvements (on-going)	D3241	Jill Bramer (US Army)	X		X
Thermal Stability Heater Tube Metrological ILS	D3241	Amy Carico (A4A)	X		
Metaspec 2 nd Source Heater Tubes	D3241	Nathan Wicker (Metaspec)		X	
Smoke Point of Kerosene and Aviation Turbine Fuel (SP20 calibration)	D1322	Kevin Bower			X



Section Highlights

Additives & Electrical Properties Section J04

Part 1 of 2

Chair: Melanie Thom

Subject	Standard	Lead	Under Development in Task Force	In Balloting	Completed (in ASTM Standard)
Add D8183 Indicated Cetane Number (ICN)	D4054	Bob McCormick (NREL)			X
Fuel Composition by GCxGC Federal Test Method 7508	D4054	Paul Wrzesinski (USAF)			X
Add On-line Conductivity JF-1A-MC sensor	D2624	Alan Fougere (D-2)			X
Additive Evaluation Guidelines	D4054	Jack Burgazli (Innospec)	X		



Section Highlights

Additives & Electrical Properties Section J04

Chair: Melanie Thom

Part 2 of 2

Subject	Standard	Lead	Under Development in Task Force	In Balloting	Completed (in ASTM Standard)
Co-Processing Evaluation Guidelines Task Force	D4054	Andy McDaniel (Pratt & Whitney)	X		
FSII Measurement by FTIR Spectroscopy Test Method	TBD	Alan Fougere (D-2)	X		
Update ICP-MS test method for trace metals in av fuel	D8110	George Gonzales	X		

Section Highlights



Fuel Cleanliness Section J05 Chair: JP Belieres

Subject	Standard	Lead	Under Development in Task Force	In Balloting	Completed (in ASTM Standard)
Metaspec Z-cell alternative test cell source for water separability test – Test Method Revision	D7224	Nathan Wicker (Metaspec)		X	
Remove Digital Aqua-Glo Free Water Test Instrument	D3240	JP Belieres (Boeing)		X	

Section Highlights



Synthetic Aviation Turbine Fuel, Section J06

Chair: Gurhan Andac

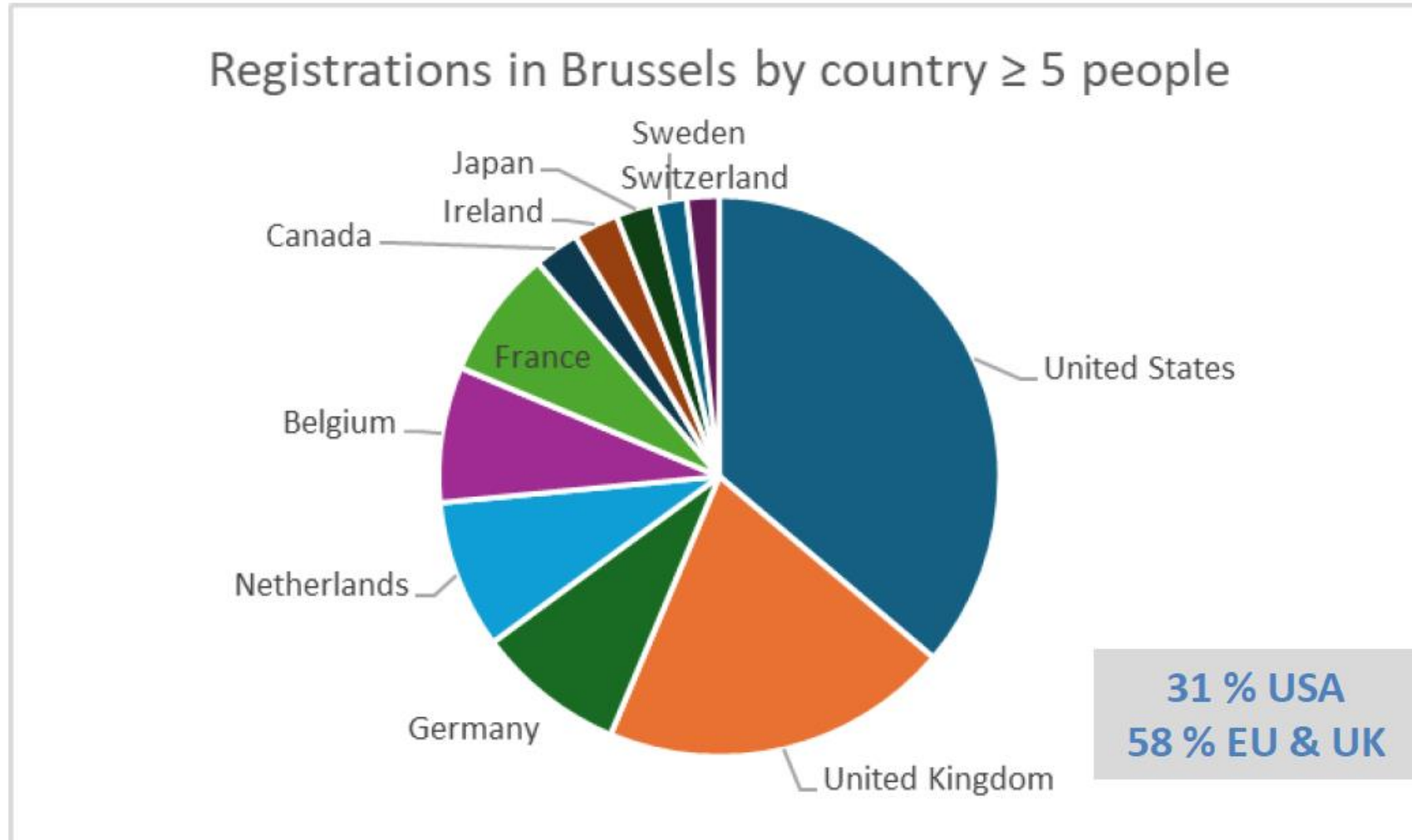
Subject	Standard	Lead	Under Development in Task Force	In Balloting	Completed (in ASTM Standard)
Add aromatics SFC test method D8305	D7566	Enrico Lodrigueza (Phillips 66)			X
Synthesized Aromatic Kero	D7566	Jim Sheridan (Marathon)		X	
100% Drop-in SATF	D7566	Gurhan Andac (GE)	X		
100% Non-Drop-in SATF	TBD	David Parmenter (Airbus) & Alastair Hobday (Rolls Royce)	X		
Plastics to Jet SATF	D7566	Georg Lenk (OMV)	X		
HEFA with Aromatics	D7566	Saleem Farooqui (Indian Institute of Petroluem)	X		
Methanol to Jet (SPK)	D7566	Dan Kadlecsek (ExxonMobil)	X		
Methanol to Jet (CKA)	D7566	Angelica Hidalgo (Topsoe)	X		

European Off-Site Meeting of the ASTM Aviation Fuel Subcommittee – Brussels, Belgium

April 7-11, 2025



– 309 Registered Attendees from 33 Countries:



European Off-Site Meeting of the ASTM Aviation Fuel Subcommittee – Brussels, Belgium

April 7-11, 2025



– SATF Seminar (April 7):

- SATF Qualification and Regulatory Oversight
- ASTM D4054 SATF Evaluation Process
- International D4054/SAF Clearing Houses (US, EU, UK)
- ASTM D7566 Overview
- EI 1533 Overview
- ASTM D1655 Historical Perspective
- Co-Processing
- OEM Panel Discussion on SATF Evaluation and Qualification

– Aviation Fuel Subcommittee J Meeting (April 8-10)

- Spotlight Sessions
 - Progress Towards Unleaded Avgas
 - Special Topics on D4054
 - Non-Carbon Emissions
 - Advancements in Co-processing
- Case Studies
 - Jet Fuel Thermal Stability Test Method (D3241)
 - Water Separation Test Methods
 - Alternative Source Consumable Kit: D7224
 - Water Separability Test Method
 - Particle Counting
 - Test Method selection/Equivalent Test Methods
 - ASTM Proficiency Test Program (PTP)

Next Meetings of the ASTM Aviation Fuel Subcommittee



- Dates: **Sunday December 07, 2025 - Thursday December 11, 2025**
 - Location: Hyatt Regency Houston, 1200 Louisiana St, Houston, Texas
- Dates: **Sunday June 21, 2026 - Thursday June 25, 2026**
 - Hyatt Regency McCormick Place, 2233 South Martin Luther King Dr, Chicago, Illinois

ASTM's Aviation fuels standards



Thank You!!!

Mark Rumizen

Chair, Aviation Fuel Subcommittee, D02.J0

Email: mark.rumizen@gmail.com

Phone: +1 781-521-1743

George Zombanakis

V. Chair, Aviation Fuel Subcommittee, D02.J0

Email: george.zombanakis@united.com

Phone: +1 832-332-8976

Questions?