ASTM Qualifications Landscape

Jan 28, 2026

Early data & discussions

AtJ-SAK (Vertimass)
AtJ (UFT)
HBtJ (Visolis)
TtJ (Captis Aire)
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Tier 1 & 2

PtJ-SKA (OMV)
TOtJ (UPM)
SBtJ (Firefly)
LP-HEFA-SKC (REVO)
KtJ-SPK (BioVeritas)

OEM review

MtJ-CKA (Topsoe)
ItJ-SCP (CleanJoule)

Tier 3 & 4

HDO-SAK (Marathon)

OEM & regulatory agency review

MtJ-SPK (ExxonMobil, Honeywell)
HEFA-SKA (CSIR-IIP)

ASTM balloting

Qualification

ASTM D7566
A1: FT-SPK
A2: HEFA-SPK
A3: SIP
A4: FT-SKA
A5: AtJ-SPK
A6: CHJ
A7: HHC-HEFA
A8: AtJ-SKA

Acronyms:

AtJ-SKA:	Alcohol-to-Jet Synthetic Kerosene with Aromatics
AtJ-SPK:	Alcohol-to-Jet Synthetic Paraffinic Kerosene
CHJ:	Catalytic Hydrothermolysis Jet
CPK-0:	Cycloparaffinic Kerosene
FT-SKA:	Fischer-Tropsch Synthetic Kerosene with Aromatics
FT-SPK:	Fischer-Tropsch Synthetic Paraffinic Kerosene
HBtJ:	Hybrid Bio-Thermocatalytic Jet
HDO-SAK:	Hydro-deoxygenation Synthetic Aromatic Kerosene
HEFA-SKA:	Hydro-processed Esters and Fatty Acids Synthetic Kerosene with Aromatics
HEFA-SPK:	Hydro-processed Esters and Fatty Acids Synthetic Paraffinic Kerosene
HHC-HEFA:	Hydroprocessed Hydrocarbons, Esters and Fatty Acids
ItJ-SCP:	Isoprene-to-Jet Synthesized Cycloparaffins
KtJ-SPK:	Ketones-to-Jet Synthetic Paraffinic Kerosene
LP-HEFA-SKC:	Low Pressure HEFA Synthetic Paraffinic Kerosene Containing Cycloparaffins
MtJ-CKA:	Methanol-to-Jet Cycloparaffinic Kerosene with Aromatics
MtJ-SPK:	Methanol-to-Jet Synthetic Paraffinic Kerosene
PtJ-SKA:	Plastics-to-Jet Synthetic Kerosene with Aromatics
SATF:	Synthetic Aviation Turbine Fuel
SBC:	Synthetic Blending Component
SBtJ:	Sewage Biosolids to Jet
SIP:	Synthetic Iso-paraffins
TOtJ	Tall Oil to Jet
TtJ:	Terpenes-to-Jet

Fully-SATF Task Forces

Drop-in Fully-SATF: Qual of pathways good for drop-in; also allow blends of SBCs

non-Drop-in Fully-SATF: Standardization only; for testing/certification

ASTM D1655 co-processing of alternate crude with petro-crude

- **Lipids**
- **Fischer-Tropsch**
- **Hydroprocessed biomass**

ASTM Task Force for "generic" co-processing

ASTM Task Force for pyrolysis oil from used tires

ASTM Task Force for waste plastics

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