

## Preliminary Product Specification

<b>Emerging Fuels Technology</b> <b>Fischer-Tropsch Hydroprocessed Synthesized</b> <b>Paraffinic Kerosene (SPK)</b>				
Fischer-Tropsch aviation fuel blend SPK is a highly paraffinic synthetic product that meets all requirements of the ASTM D7566 Annex 1 specifications. EFT SPK is sulfur and aromatics free, non-toxic and biodegradable.				
Typical Physical Characteristics	Units	Test Method	Specification Value	Sample Properties
<b>Annex 1 Table A1.1</b>				
Acidity	Total KOH/g	D3242	Max 0.015	<0.015
Distillation 10% Off	°C	D86	Max 205	175.3
Distillation FBP	°C	D96	Max 300	274
Residue	%	D86	Max 1.5	1.4
% Loss	%	D86	Max 1.5	1
Flashpoint	°C	D3282	Min 38	49
Density @ 15°C	kg/m <sup>3</sup>	D1298	Min 73	763
			Max 770	763
Freeze Point Jet A	°C	-40	D2386 (1)	-73
Freeze Point Jet A-1	°C	-47	D2383 (1)	-73
Thermal Stability Temp	°C	Min 325	D3241	Pass
Thermal Pressure Drop	mm Hg	Max 25	D3241	Pass
Tube Deposit	Rating	< 3	D3241	Pass
<b>Annex 1 Table A1.2</b>				
Hydrocarbon Composition				
Cycloparaffins	Max %	D4245	15	Pass
Aromatics	Mass %	D4245	0.5	Pass
Paraffins	Mass %	D4245	Report	Pass
Carbon and Hydrogen min	Mass%	D5291	99.5	Pass
Non-hydrocarbon Composition				
Nitrogen max	mg/Kg	D4629	2	Pass
Water max	mg/Kg	D6304	75	Pass
Sulfur max	mg/Kg	D5453	15	Pass
Metals max	mg/kKg	UOP 389	0.1/metal	Pass
Halogen Max	mg/kg	D7359	1	Pass

## About Us:

Emerging Fuels Technology (EFT) is a technology company focused on methods for producing synthetic fuels and specialty products from a variety of feedstocks such as natural gas, biogas, biomass, municipal solid waste (MSW), sources of CO<sub>2</sub> and bio-derived oils. EFT is one of the world's foremost authorities on Fischer-Tropsch (FT) and related synthesis, licensing the core technologies and upgrade packages for projects from 50 to 10,000 barrels per day. [www.emergingfuels.com](http://www.emergingfuels.com)

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