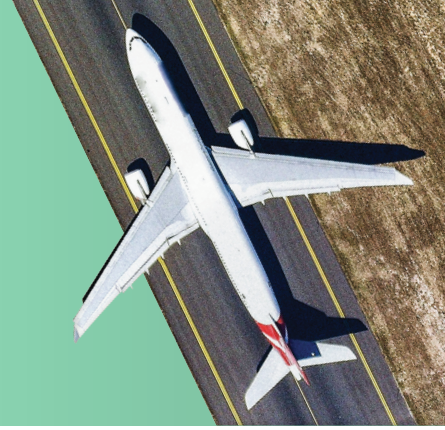
02/17/2021

Product Data Sheet

Neste MY Sustainable Aviation Fuel™



Based on ASTM D7566 Annex A2 HEFA-SPK

Property (unit)	Test method	Specification limit		Neste MY Sustainable Aviation Fuel, typical value
		Min	Max	
Acidity (mg KOH/g)	D3242		0.015	0.011
1. Physical distillation	D86			
10% Recovered, T10 (°C)			205	198
50% Recovered, T50 (°C)		Report		
90% Recovered, T90 (°C)		Report		
Final boiling point (°C)			300	288
T90-T10 (°C)		22		85
Distillation residue (vol-%)			1.5	1.3
Distillation loss (vol-%)			1.5	1.1
2. Simulated distillation	D2887			
10% Recovered, T10 (°C)		Report		
20% Recovered, T10 (°C)		Report		
50% Recovered, T50 (°C)		Report		
80% Recovered, T10 (°C)		Report		
90% Recovered, T90 (°C)		Report		
Final boiling point (°C)		Report		
Flash point (°C)	IP170	38		41
Density at 15°C (kg/m3)	D4052	730	772	771.6
Freezing point (°C)	IP529		-40	-51
Existent gum (mg/100ml)	IP540		7	1
FAME (mg/kg)	IP585		< 5	< 4.5
Thermal stability, 2.5 h at 325°C:	D3241			
Filter pressure drop (mmHg)			25	< 1
Tube rating - one of the following requirements shall be met:				
1. VTR		Less than 3		< 1
VTR color code		No peacock or abnormal color deposits		No peacock or abnormal color deposits
2. ITR or ETR, deposit thickness average over area of 2.5 mm^2 (mm)			85	< 85

NESTE MY Sustainable Aviation Fuel

Property (unit)	Test method	Specification limit		Neste MY Sustainable Aviation Fuel, typical value
		Min	Max	
Other properties (at point of manufacture)				
Cycloparaffins (m-%)	D2425		15	4
Aromatics (m-%)			0.5	0.1
Paraffins (m-%)		Report		96
Carbon and hydrogen (m-%)	D5291	99.5		100
Nitrogen (mg/kg)	D4629		2	< 0.3
Water (mg/kg)	D6304		75	33
Sulfur (mg/kg)	D5453		15	< 1
Metals (Al, Ca, Co, Cr, Cu, Fe, K, Mg, Mn, Mo, Na, Ni, P, Pb, Pd, Pt, Sn, Sr, Ti, V, Zn) (mg/kg)	D7111		0.1 per metal	< 0.1 per metal
Halogens (mg/kg)	D7359		1	< 1
Additives				
Antioxidant, mandatory (mg/l, active component)		17	24	20
Electrical conductivity improver, non-mandatory:				
Initial dosing (mg/l)			3	< 3
After field redosing, cumulative concentration (mg/l)			5	< 5

For further information on approved additives, test methods and other requirements, see ASTM D7566 Standard Specification for Aviation Turbine Fuel Containing Synthesized Hydrocarbons.