

## Product Name: NiQuan CAF™ Blendstock

Product Category: Clean Aviation Fuel



NiQuan  
ENERGY

### Description:

NiQuan Clean Aviation Fuel™ Blendstock (NiQuan CAF™) is a clean, essentially zero sulfur, biodegradable kerosene blendstock. This product is an on-spec, compression ignition fuel (EN15940), the two primary characteristics of which are essentially a zero-sulfur content and a very high cetane rating (in excess of 70 compared to the 48-52 typical rating of petro-diesel). The near zero sulfur quality is a function of the production process which requires the removal of sulfur from the natural gas feedstock to protect the catalyst.

NiQuan CAF™ blendstock can be blended in a 50/50 split with kerosene yielding a cleaner jet fuel with significantly lower CO2 emissions for the environment and improved performance for the consumer. The blended fuel requires no engine modification.

NiQuan CAF™ is biodegradable with low absorbance making it a benign fuel in the airways and safer to handle.

### NiQuan CAF™ Specifications

Property	Unit	Min	Max	Typical (estimated)	Test Method
Specific Gravity @ 15°C		0.75	0.81	0.775	ASTM D1298 / ASTM D4052
Colour			1.5	< 1	ASTM D1500
Appearance			Clear & Bright	Clear & Bright	Visual
Flash Point	°C	62		75	ASTM D93
Water & Sediment	Vol %		0.05	< 0.05	ASTM D2709
Sediment by Extraction	Mass %		0.01	< 0.01	ASTM D473
Total Acid Number	Mg KOH/g		0.1	< 0.01	ASTM D974
Strong Acid Number	Mg KOH/g		0	0	ASTM D974
Cetane Number		70		74	ASTM D613
Distillation					ASTM D86
10% Volume Recovered	°C	Report		200	ASTM D86
50% Volume Recovered	°C		292	255	ASTM D86
90% Volume Recovered	°C	282	338	310	ASTM D86
95% Volume Recovered	°C	Report		315	ASTM D86
Final Boiling Point	°C		360	328	ASTM D86
Residue	Vol %		2.0	1	ASTM D86
Cloud Point	°C		+5	< 0	ASTM D2500 / ASTM D5771
Pour Point	°C		0	-18	ASTM D97 / ASTM D5950
Carbon Residue on 10% Bottoms	Mass %		0.10	< 0.10	ASTM D4530
Sulphur Content	ppm		<1.0	< 1.0	ASTM D4294 / ASTM D5453
Ash	Mass %		0.01	< 0.01	ASTM D482
Copper Strip Corrosion Resistance (3h at 50°C)			1	1	ASTM D130
Kinematic Viscosity at 40°C	cSt	2.0	4.1	2.2	ASTM D445
Oxidation Stability	Mg/100ml		1.0	< 1.0	ASTM D2274
Polycyclic Aromatics	Vol %		0.1	< 0.1	ASTM D5186 / IP 391
Total Aromatics	Vol %		5	< 0.5	ASTM D5186 / IP 391

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