

REFERENCE MATERIAL LIST



GASOLINE

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Other materials are produced according ISO 17034 requirements

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Test name	Item code	Designation	Product	Value	Bottle Volume	Production lot	Expiration date	The certified value of this CRM can be used with the following test methods :
	Below, Informations to be reported on your order							
Density at 15°C	* DE-GA-268	Density_744.4kg/m3_250ml	E10	744.4 kg/m³	250 ml	GA-268	07 2026	ISO 12185, ASTM D 4052, IP 365, ISO 3675, ASTM D 1298, IP 160
Distillation (Unleaded)	* DI-GA-268	Distillation_31.4_178.7°C_250ml	E10	31.4 °C / 178.7 °C	250 ml	GA-268	07 2026	ISO 3405, ASTM D 86, IP 123
Vapour Pressure (DVPE)	* VP-GA-268	Reid Vapour_74.0kPa_250ml	E10	74.0 kPa	250 ml	GA-268	07 2026	EN 13016-1, ASTM D 5191, ASTM D 4953, IP 394-1, IP 409-1, ASTM D 5482
Aromatic Content	AC-GA-268	Aromatic Content_28.2%_250ml	E10	28.2 % vol	250 ml	GA-268	07 2026	ISO 22854, ASTM D 1319, ASTM D 6839, ISO 3837, IP 156
Benzene Content	BE-GA-268	Benzene Content_0.75%_250ml	E10	0.75 % vol	250 ml	GA-268	07 2026	ISO 22854, EN 238, ASTM D 6839, ASTM D 4053
Multitest Hydrocarbon types and oxygenates content	MC-GA-268	Multitest content_250ml	E10	Aromatics : 28.2 % vol Benzène : 0.75 % vol Ethanol : 7.48 % vol Olefins : 13.13 % vol Total Oxygen : 3.62 % m	250 ml	GA-268	07 2026	Aromatics : ISO 22854, ASTM D 1319, ASTM D 6839, ISO 3837, IP 156 Benzène : ISO 22854, EN 238, ASTM D 6839, ASTM D 4053 Ethanol : ISO 22854, ASTM D 6839, EN 1601, EN 13132 Olefins : ISO 22854, ASTM D 6839, EN 15553 Total Oxygen : ISO 22854, ASTM D 6839, EN 1601, EN 13132
Motor Octane Number (Unleaded)	OM-95-936	Motor Octane Number_86.3_1000ml	E10	86.3	1000 ml	95-936	08 2025	ASTM D 2700 / ISO 5163
	OM-98-475	Motor Octane Number_87.9_1000ml	E5	87.9	1000 ml	98-475	10 2026	
Research Octane Number (Unleaded)	OR-95-936	Research Octane Number_98.1_1000ml	E10	98.1	1000 ml	95-936	08 2025	ASTM D 2699 / ISO 5164
	OR-98-475	Research Octane Number_98.8_1000ml	E5	98.8	1000 ml	98-475	10 2026	

JET AVIATION Fuel

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Density at 15°C	* DE-KR-071	Density_803.2kg/m3_250ml	KR	803.2 kg/m3	250 ml	KR-071	08 2027	ASTM D 4052, ISO 12185, IP 365, ASTM D 1298, ISO 3675, IP 160
Freezing Point	* FR-KR-071	Freezing Point_-58.8°C_250ml	KR	- 58.8 °C	250 ml	KR-071	08 2027	ASTM D 5972 / IP 435, ASTM D 7153 / IP 529, ASTM D 7154 / IP 528, ASTM D 2386 / IP 16, ISO 3013
Distillation	* DI-KR-071	Distillation_158.8_250.5°C_250ml	KR	158.8°C / 250.5°C	250 ml	KR-071	08 2027	ASTM D 86, ISO 3405, IP 123, ASTM D 2887 / IP 406, ASTM D 7344, ASTM D 7345 / IP 596, DIN 51751
Sulphur of Mercaptans	SM-KR-071	Sulphur Mercaptans_16.50mg/kg_250ml	KR	16.50 mg/kg	250 ml	KR-071	08 2027	ASTM D 3227 / IP 342, ISO 3012
Acidity	AD-KR-071	Acidity_0.0054mg/g KOH_250ml	KR	0.0054 mg/g KOH	250 ml	KR-071	08 2027	ASTM D 3242 / IP 354
Abel Flash Point	* AB-KR-071	Abel Flash Point_48.1°C_250ml	KR	48.1 °C	250 ml	KR-071	08 2027	IP 170, EN ISO 13736, NFM 07011
Smoke Point	* SP-KR-071	Smoke Point_23.4mm_250ml	KR	23.4 mm	250 ml	KR-071	08 2027	ASTM D 1322 / IP 598, ISO 3014
Kinematic Viscosity -20°C	VI-KR-071	Kinematic Viscosity_20°C_4.052mm2/s_250ml	KR	4.052 mm²/s	250 ml	KR-071	08 2027	ASTM D 445 / IP 71-1, ISO 3104, ASTM D 7042, ASTM D 7945
TAG Flash Point	FT-KR-071	TAG Flash Point_49.2°C_250ml	KR	49.2 °C	250 ml	KR-071	08 2027	ASTM D 56
FIA Aromatics	FI-KR-071	FIA Aromatics_16.40%_250ml	KR	16.40 % Vol	250 ml	KR-071	08 2027	ASTM D 1319, IP 156, ISO 3837, EN NF 15553
Gum Content	GU-KR-071	Gum content_0.4mg/100ml_250ml	KR	0,4 mg/100ml	250 ml	KR-071	08 2027	ASTM D 381, ISO 6246, IP 540
Aniline Point	AP-KR-564	Aniline Point_58.5°C_250ml	KR	58.5 °C	250 ml	KR-564	05 2026	ASTM D 611 / IP 2-91, ISO 2592
Reference Fuel Smoke Point	SET-A	Fuel smoke point_14.7 to 42.8mm_7x25ml	KR	14.7 up to 42,8 mm	7x25ml	SP-021	05 2026	ASTM D 1322 Reference Fuels Table
	SM-Mix 1	Fuel smoke point_14.7mm_4x25ml	KR	14.7 mm	4x25ml	SP-021	05 2026	ASTM D 1322 Reference Fuels Table
	SM-Mix 2	Fuel smoke point_20.2mm_4x25ml	KR	20.2 mm	4x25ml	SP-021	05 2026	ASTM D 1322 Reference Fuels Table
	SM-Mix 3	Fuel smoke point_22.7mm_4x25ml	KR	22.7 mm	4x25ml	SP-021	05 2026	ASTM D 1322 Reference Fuels Table
	SM-Mix 4	Fuel smoke point_25.8mm_4x25ml	KR	25.8 mm	4x25ml	SP-021	05 2026	ASTM D 1322 Reference Fuels Table
	SM-Mix 5	Fuel smoke point_30.2mm_4x25ml	KR	30.2 mm	4x25ml	SP-021	05 2026	ASTM D 1322 Reference Fuels Table
	SM-Mix 6	Fuel smoke point_35.4mm_4x25ml	KR	35.4 mm	4x25ml	SP-021	05 2026	ASTM D 1322 Reference Fuels Table
	SM-Mix 7	Fuel smoke point_42.8mm_4x25ml	KR	42.8 mm	4x25ml	SP-021	05 2026	ASTM D 1322 Reference Fuels Table



DIESEL

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	Below, Informations to be reported on your order							
Density	* DE-GO-597	Density_833.0kg/m3_250ml	B7	833.0 kg/m3	250 ml	GO-597	06 2028	ISO 12185, ASTM D 4052, IP 365, ASTM D 1298, IP 160, ISO 3675
Cloud Point	* CP-GO-597	Cloud Point_-4.4°C_250ml	B7	- 4.4 °C	250 ml	GO-597	06 2028	ASTM D 2500, ISO 3015, ISO 22995, ASTM D 5771, ASTM D 5772, ASTM D 5773 / IP 446
	* CP-GO-742	Cloud Point_-0.1°C_250ml	B7	- 0.1 °C	250 ml	GO-742	08 2026	ASTM D 2500, ISO 3015, ISO 22995, ASTM D 5771, ASTM D 5772, ASTM D 5773 / IP 446
CFPP - Cold Filter Plugging Point	CF-GO-333	CFPP_-16.1°C_250ml	B7	- 16.1 °C	250 ml	GO-333	08 2025	ASTM D 6371, EN 116
	* CF-GO-597	CFPP_-19.4°C_250ml	B7	- 19.4 °C	250 ml	GO-597	06 2028	ASTM D 6371, EN 116
	CF-GO-902	CFPP_-24.3°C_250ml	B7	- 24.3 °C	250 ml	GO-902	02 2025	ASTM D 6371, EN 116
Pour Point	* PP-GO-597	Pour Point_-21.3°C_250ml	B7	- 21.3 °C	250 ml	GO-597	06 2028	ASTM D 97, ISO 3016, IP 15, NF T60-105 , ASTM D 5950, ASTM D 6892, ASTM D 5985
	* PP-GO-742	Pour Point_-33.6°C_250ml	B7	- 33.6 °C	250 ml	GO-742	08 2026	ASTM D 97, ISO 3016, IP 15, NF T60-105 , ASTM D 5950, ASTM D 6892, ASTM D 5985
Distillation	* DI-GO-597	Distillation_161.4_362.2°C_250ml	B7	161.4 °C / 362.2 °C	250 ml	GO-597	06 2028	ASTM D 86, ISO 3405, IP 123, DIN 51751, ASTM D 2887 / IP 406, ISO 3924, ASTM D 7344, ASTM D 7345 / IP 596, EN 17306
Pensky Martens Flash Point	* PM-GO-597	Pensky Martens_51.9°C_250ml	B7	51.9 °C	250 ml	GO-597	06 2028	ASTM D 93, ISO 2719, IP 34, NFT 60103, ASTM D 3828, ASTM D 7094
	* PM-GO-742	Pensky Martens_59,6°C_250ml	B7	59.6 °C	250 ml	GO-742	08 2026	ASTM D 93, ISO 2719, IP 34, NFT 60103, ASTM D 3828, ASTM D 7094
Kinematic Viscosity +20°C	VI20-GO-597	Kinematic Viscosity +20°C_3.785mm2/s_250ml	B7	3.785 mm²/s	250 ml	GO-597	06 2028	ASTM D 445 / IP 71, ISO 3104, ASTM D 7945, EN 16896, ISO 23581, ASTM D 7042
Kinematic Viscosity +40°C	VI40-GO-597	Kinematic Viscosity +40°C_2.488mm2/s_250ml	B7	2.488 mm²/s	250 ml	GO-597	06 2028	ASTM D 445 / IP 71, ISO 3104, ASTM D 7945, EN 16896, ISO 23581, ASTM D 7042
Sulphur Content	SU-GO-597	Sulphur Content_8.4mg/kg_250ml	B7	8.4 mg/kg	250 ml	GO-597	06 2028	ASTM D 5453, ISO 20846, ASTM D 2622, ISO 20884, ISO 13032
Cetane Number	CN-GO-859	Cetane Number_54.0_1000ml	B7	54.0	1000 ml	GO-146	06 2027	ISO 5165 / ASTM D613 , EN 16715 , ASTM D7668
FAME Content	FA-GO-919	FAME Content_3.42%_250ml	B5	3.42 % Volume	250 ml	GO-919	10 2026	EN 14078 - ASTM D 7371
	FA-GO-597	FAME Content_6.19%_250ml	B7	6.19 % Volume	250 ml	GO-597	06 2028	
		FA-GO-999	FAME Content_97.94%_250ml	B100	97.94 % Volume	250 ml	GO-999	10 2026

LUBRICANT

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	Below, Informations to be reported on your order							
Density at 15 °C	DE-LU-237	Density_872.8kg/m3_250ml	LU	872.8 kg/m3	250 ml	LU-237	10 2028	ASTM D 4052 - ISO 12185
Cleveland Flash Point	FC-LU-237	Cleveland Flash point_234°C_250ml	LU	234 °C	250 ml	LU-237	10 2028	ASTM D 92 - ISO 2592 - IP 36/403
Pensky Martens Flash Point	PM-LU-456	Pensky Martens_203°C_250ml	LU	203 °C	250 ml	LU-456	09 2025	ASTM D 93 - EN 22719 - ISO 2719 - NFT 60103
	PM-LU-237	Pensky Martens_209°C_250ml	LU	209 °C	250 ml	LU-237	10 2028	
Pour Point	PP-LU-237	Pour Point_-24.6°C_250ml	LU	-24,6 °C	250 ml	LU-237	10 2028	ASTM D 97-ASTM D 5950- NFT 60-105 – ISO 3016 – ASTM D 5949 – ASTM D 6749
Kinematic Viscosity at +20°C	VI20-LU-237	Kinematic Viscosity +20°C_88.1mm2/s_250ml	LU	88.1 mm²/s	250 ml	LU-237	10 2028	ASTM D 445
Kinematic Viscosity at +40°C	VI40-LU-237	Kinematic Viscosity +40°C_32.93mm2/s_250ml	LU	32.93 mm²/s	250 ml	LU-237	10 2028	ASTM D 445
Kinematic Viscosity at +100°C	VI100-LU-237	Kinematic Viscosity +100°C_5.59mm2/s_250ml	LU	5.59 mm²/s	250 ml	LU-237	10 2028	ASTM D 445