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**CERTIFIED REFERENCE MATERIAL LIST**

Test name	Value	Order code	Bottle Volume	Expiration date	Certificate Number	Main Method
GASOLINE						
Density at 15°C	742.9 kg/m3	DE-GA-730	250 ml	12 2019	15150	ASTM D 4052 - ISO 12185
Automatic Distillation (Unleaded)	36°C / 181°C	DI-GA-730	250 ml	12 2019	15031/043	ASTM D 86 - ISO EN 3405 - IP 123 - DIN 51751
Reid Vapour Pressure	58,9 kPa	VP-GA-730	250 ml	12 2019	15074	ASTM D 323
Benzene Content	0.62 % vol	BE-GA-730	250 ml	12 2019	15045	ASTM D 4053 - EN 238 - EN ISO 22854 - ASTM D 6277
Aromatic Content	27.7 % vol	AC-GA-730	250 ml	12 2019	15044	ASTM D 5580
Motor Octane Number E95 (Unleaded)	86.3	OM-GA-095	1000 ml	12 2018	16002	ASTM D 2700
	87.5	OM-GA-098	1000 ml	12 2017	130180	
Research Octane Number E98 (Unleaded)	98.9	OR-GA-098	1000 ml	12 2017	130112	ASTM D 2699
	97	OR-GA-095	1000 ml	12 2018	16003	
JET AVIATION Fuel						
Density at 15°C	802,5 kg/m3	DE-KR-619	250 ml	12 2019	13043	ASTM D 4052 - ISO 12185
Freezing Point	- 53.4 °C	FR-KR-619	250 ml	12 2019	13042	ASTM D 2386
Automatic Distillation	146°C / 251°C	DI-KR-619	250 ml	12 2019	13058/070	ASTM D 86 - ISO EN 3405 - IP 123 - DIN 51751
Sulphur of Mercaptans	15.2 mg/kg	SU-KR-619	250 ml	12 2019	13051	ASTM D 3227 – ISO 3012
Acidity	0.0085mgKOH/g	AD-KR-619	250 ml	12 2019	13049	ASTM D 3242
FIA Aromatics	20.1 % Vol	FI-KR-619	250 ml	12 2019	13044	FIA ASTM D 1319 - EN NF 15553
Abel Flash Point	40.3 °C	AB-KR-619	250 ml	12 2019	13046	IP 170 -EN ISO 13736 - NFM 07011
Kinematic Viscosity -20°C	3.841 mm²/s	VI-KR-619	250 ml	12 2019	13050	ASTM D 445 - ISO 3104
TAG Flash Point	41.4 °C	FT-KR-619	250 ml	12 2019	13100	ASTM D 56
Aniline Point	56,6 °C	AP-KR-619	250 ml	12 2019	13048	ASTM D 611
Smoke Point	21.6 mm	SP-KR-619	250 ml	12 2019	13101	ASTM D 1322 - IP 598
Reference Fuel Smoke Point	14.7 up to 42,8 mm	SET-A	7x25ml	12 2019	Edit date of supply	ASTM D 1322 Reference Fuels Table
	14.7 mm	SM-Mix 1	4x25ml	12 2019	Edit date of supply	
	20.2 mm	SM-Mix 2	4x25ml	12 2019	Edit date of supply	
	22.7 mm	SM-Mix 3	4x25ml	12 2019	Edit date of supply	
	25.8 mm	SM-Mix 4	4x25ml	12 2019	Edit date of supply	
	30.2 mm	SM-Mix 5	4x25ml	12 2019	Edit date of supply	
	35.4 mm	SM-Mix 6	4x25ml	12 2019	Edit date of supply	
	42.8 mm	SM-Mix 7	4x25ml	12 2019	Edit date of supply	

Test name	Value	Order code	Bottle Volume	Expiration date	Certificate Number	Main Method
DIESEL						
Density at 15 °C	833,5 kg/m3	DE-GO-690	250 ml	12 2019	13015	ASTM D 4052 - ISO 12185
	836,39 kg/m3	DE-GO-888	250 ml	12 2017	1209004	
	837.5 kg/m3	DE-GO-185	250 ml	12 2019	16165	
Cloud Point	- 2.4 °C	CP-GO-185	250 ml	12 2019	16166	ASTM D 2500 – NF EN 23015 - ISO 3015 - ASTM D 5773 – ASTM D 5771 – ASTM D 5772
	- 3,3 °C	CP-GO-888	250 ml	12 2017	1209003	
	- 6,6 °C	CP-GO-690	250 ml	12 2019	13017	
CFPP - Cold Filter Plugging Point	-16 °C	CF-GO-333	250 ml	12 2018	16091	ASTM D 6371 - EN 116
	- 16.3 °C	CF-GO-185	250 ml	12 2019	16163	
	-23.6 °C	CF-GO-209	250 ml	12 2017	12025	
Pour Point	-16.1 °C	PP-GO-888	250 ml	12 2017	1209005	ASTM D 97 – NFT 60-105 – ISO 3016 – ASTM D 5949 – ASTM D 6749 – ASTM D 5950 –ASTM D 6892 – ASTM D 5985
	- 23.8 °C	PP-GO-185	250 ml	12 2019	16167	
Automatic Distillation	156 °C / 355 °C	DI-GO-690	250 ml	12 2019	13002/014	ASTM D 86 - ISO EN 3405 - IP 123 - DIN 51751
	172 °C / 364 °C	DI-GO-185	250 ml	12 2019	16150 /16162	
Pensky Martens	64,8°C	PM-GO-333	250 ml	13 2018	16090	ASTM D 93 - EN 22719 - ISO 2719
	66.2 °C	PM-GO-185	250 ml	12 2019	16171	
Kinematic Viscosity +20°C	3,897 mm²/s	VI-690+20	250 ml	12 2019	13020	ASTM D 445 - ISO 3104
	4.442 mm²/s	VI-185+20	250 ml	12 2019	16169	
Kinematic Viscosity +40°C	2,534 mm²/s	VI-690+40	250 ml	12 2019	13021	ASTM D 445 - ISO 3104
	2.847 mm²/s	VI-185+40	250 ml	12 2019	13170	
Sulphur Content	7,08 mg/kg	SU-GO-690	250 ml	12 2019	13019	ASTM D 5453 -ISO 20846
	7.01 mg/kg	SU-GO-185	250 ml	12 2019	16168	
Cetane Number	53.5	CN-GO-152	1000 ml	12 2018	141201	ASTM D 613 - ISO 5165
FAME Content	3.42 % Volume	FA-GO-919	250 ml	12 2017	13001	EN 14078 - EN 14103
	6.90 % Volume	FA-GO-185	250 ml	12 2019	16164	
	97.94 mol/mol	FA-GO-999	250 ml	12 2018	151220	
LUBRICANT						
Density at 15 °C	868,7 kg/m3	DE-LU-671	250 ml	12 2017	11041204	ASTM D 4052 - ISO 12185
Cleveland Flash Point	265 °C	FC-LU-671	250 ml	12 2017	11041207	ASTM D 92 - ISO 2592 - IP 36/403
Pensky Martens Flash Point	203 °C	PM-LU-456	250 ml	12 2017	11041206	ASTM D 93 - EN 22719 - ISO 2719
	243 °C	PM-LU-671	250 ml	12 2017	11041205	
Pour Point	-11.6°C	PP-LU-671	250 ml	12 2017	11041206	ASTM D 97
Kinematic Viscosity at +20°C	299.0 mm²/s	VI-671-+20	250 ml	12 2017	11041209	ASTM D 445 - ISO 3104
Kinematic Viscosity at +40°C	91,6 mm²/s	VI-671-+40	250 ml	12 2017	11041208	ASTM D 445 - ISO 3104
Kinematic Viscosity at +100°C	10,8 mm²/s	VI-671-+100	250 ml	12 2017	11041211	ASTM D 445 - ISO 3104

Transport, Dangerous Goods Packing, Dangerous Goods declarations not included in the price list.

List 2016-8 (22.11.2016)