

MARKETING SPECIFICATION

Product: UNLEADED GASOLINE 91 (E Plus)
Spec No: G9102
Effective: May 2017

Reissued: August 2019

PROPERTY	UNITS	TEST METHOD	LIMIT		TYPICAL RESULTS
			Min.	Max.	
Appearance	-	Visual	Liquid, Clear & Bright		Liquid, Clear & Bright
Color	-	Visual	Red		Red
Odor	-	Olfactory	Marketable		Marketable
Corrosion, Copper Strip (3 Hrs. at 50 °C)	-	UAE.S GSO ISO 2160 or UAE.S GSO ASTM D 130	-	1	1
Density at 15°C	kg/m ³	UAE.S GSO ISO 3675 or ASTM D 4052,	710	770	738
Distillation		ASTM D 86 or UAE.S GSO ISO 3405	-	65	52.0
10 % Vol recovered at	°C		-	65	52.0
50 % Vol recovered at	°C		77	115	90.0
90 % Vol recovered at	°C		-	180	143.0
End Point	°C		-	205	170.0
Residue	Vol %		-	2.0	1.1
TV/L 20 (Summer)	°C	UAE.S GSO 1086, ASTM D 4814 or D 5188	Report		Report
Gum, Existent	mg/100 ml	UAE.S GSO 1080, ISO 6246, ASTM D 381		4.0	1.0
Induction Period	minute	ISO 7536, ASTM D 525 or ASTM D7525	360	-	480
Lead Content ¹	mg/l	UAE.S GSO ISO 3830, ASTM D 3237 or 5059	-	5.0	<5.0
Octane Number, Research	-	UAE.S GSO ASTM D 2699, or UAE.S GSO ISO 5164	91.0	-	91.2
Octane Number, Motor	-	UAE.S GSO ISO 5163 or ASTM D 2700	82.5	-	83.5
Reid Vapor Pressure at 37.8°C	kPa	UAE.S GSO ISO 3007, UAE.S GSO ASTM D 5191, ASTM D 6378, D323	45	60	55
Summer (Mar-Oct)			45	60	55
Winter (Nov-Feb)			45	70	60
Sulphur, Total	mg/kg	UAE.S GSO ISO 20846, UAE.S GSO ISO 20847, UAE.S GSO ISO 20884, ASTM D7039, D 5453, D 2622	-	50	10
Manganese Content ²	mg/l	UAE.S GSO ASTM D3831, ASTM D7111, UOP 389	-	5	<1.0
Aromatics	vol. %	UAE.S GSO ISO 22854, UAE.S GSO ISO 3837, UAE.S GSO ASTM D 1319, or D5580	-	40	35.0
Benzene	vol. %	UAE.S GSO ISO 22854, UAE.S GSO ASTM D 1319, ASTM D5580 or D 3606	-	1.5	1.20
Olefins	vol. %	UAE.S GSO ISO 22854, UAE.S GSO ISO 3837, ASTM D 1319 or D 6550	-	18	3.0
Allowed Oxygenate MTBE/ETBE/TAME (If added)	vol. %	UAE.S GSO ISO 22854, UAE.S GSO ASTM D 4815 or UAE.S GSO ASTM D5845	-	15	2.0

Footnotes:

1) It shall be unleaded and free of any metal based additives. No intentional addition of metal based additives is permitted.

2) Metallic compound additives such as MMT and Ferrocene (Iron Carbonyl etc.) are not allowed.

Compounds containing Phosphorous shall not be added as additives to unleaded gasoline.

MARKETING SPECIFICATION

Product: UNLEADED GASOLINE 95 (SPECIAL)**Spec No: G9502****Effective: May 2017****Reissued: August 2019**

PROPERTY	UNITS	TEST METHOD	LIMIT		TYPICAL RESULTS
			Min.	Max.	
Appearance	-	Visual	Liquid, Clear & Bright		Liquid, Clear & Bright
Color	-	Visual	Green		Green
Odor	-	Olfactory	Marketable		Marketable
Corrosion, Copper Strip (3 Hrs. at 50 °C)	-	UAE.S GSO ISO 2160 or UAE.S GSO ASTM D 130	-	1	1
Density at 15°C	kg/m ³	UAE.S GSO ISO 3675 or ASTM D 4052,	710	790	746
Distillation		ASTM D 86 or UAE.S GSO ISO 3405	-	65	53.0
10 % Vol recovered at	°C		77	115	95.0
50 % Vol recovered at	°C		-	180	145.0
90 % Vol recovered at	°C		-	215	170.0
End Point	°C		-	2.0	1.1
Residue	Vol %				
TV/L 20 (Summer)	°C	UAE.S GSO 1086, ASTM D 4814 or D 5188	Report		Report
Gum, Existent	mg/100 ml	UAE.S GSO 1080, ISO 6246, ASTM D 381	-	4.0	1.0
Induction Period	minute	ISO 7536, ASTM D 525 or ASTM D7525	360	-	480
Lead Content ¹	mg/l	UAE.S GSO ISO 3830, ASTM D 3237 or 5059	-	5.0	<5.0
Octane Number, Research	-	UAE.S GSO ASTM D 2699, or UAE.S GSO ISO 5164	95.0	-	95.2
Octane Number, Motor	-	UAE.S GSO ISO 5163 or ASTM D 2700	85.0	-	85.4
Reid Vapor Pressure at 37.8°C	kPa	UAE.S GSO ISO 3007, UAE.S GSO ASTM D 5191, ASTM D 6378, D323	45	60	58
Summer (Mar-Oct)			45	70	60
Winter (Nov-Feb)					
Sulphur, Total	mg/kg	UAE.S GSO ISO 20846 UAE.S GSO ISO 20847, UAE.S GSO ISO 20884 or ASTM D7039, D 5453, D 2622	-	50	10
Manganese Content ²	mg/l	UAE.S GSO ASTM D3831 ASTM D7111, UOP 389	-	5	<1.0
Aromatics	vol. %	UAE.S GSO ISO 22854, UAE.S GSO ISO 3837, UAE.S GSO ASTM D 1319, or D5580	-	40	35.0
Benzene	vol. %	UAE.S GSO ISO 22854, UAE.S GSO ASTM D 1319, ASTM D5580 or D 3606	-	1.5	1.20
Olefins	vol. %	UAE.S GSO ISO 22854 UAE.S GSO ISO 3837, ASTM D 1319 or D 6550	-	18	6.0
Allowed Oxygenate MTBE/ETBE/TAME (If added)	vol. %	UAE.S GSO ISO 22854 UAE.S GSO ASTM D 4815 or UAE.S GSO ASTM D5845	-	15	4.0

Footnotes:

1) It shall be unleaded and free of any metal based additives. No intentional addition of metal based additives is permitted.

2) Metallic compound additives such as MMT and Ferrocene (Iron Carbonyl etc.) are not allowed.

Compounds containing Phosphorous shall not be added as additives to unleaded gasoline.

MARKETING SPECIFICATION

Product: UNLEADED GASOLINE 98 (SUPER)
Spec No: G9802
Effective: May 2017
Reissued: August 2019

PROPERTY	UNITS	TEST METHOD	LIMIT		TYPICAL RESULTS
			Min.	Max.	
Appearance	-	Visual	Liquid, Clear & Bright		Liquid, Clear & Bright
Color	-	Visual	Blue		Blue
Odor	-	Olfactory	Marketable		Marketable
Corrosion, Copper Strip (3 Hrs. at 50 °C)	-	UAE.S GSO ISO 2160 or UAE.S GSO ASTM D 130	-	1	1
Density at 15°C	kg/m ³	UAE.S GSO ISO 3675 or ASTM D 4052,	710	790	753
Distillation		ASTM D 86 or UAE.S GSO ISO 3405	-	65	58
10 % Vol recovered at	°C		77	115	100.0
50 % Vol recovered at	°C		-	180	145.0
90 % Vol recovered at	°C		-	215	168.0
End Point	°C		-	2.0	1.0
Residue	Vol %				
TV/L 20 (Summer)	°C	UAE.S GSO 1086, ASTM D 4814 or D 5188	Report		Report
Gum, Existent	mg/100 ml	UAE.S GSO 1080, ISO 6246, ASTM D 381	-	4.0	1.0
Induction Period	minute	ISO 7536, ASTM D 525 or ASTM D7525	360	-	480
Lead Content ¹	mg/l	UAE.S GSO ISO 3830, ASTM D 3237 or 5059	-	5.0	<5.0
Octane Number, Research	-	UAE.S GSO ASTM D 2699, or UAE.S GSO ISO 5164	98.0	-	98.0
Octane Number, Motor	-	UAE.S GSO ISO 5163 or ASTM D 2700	88.0	-	88.0
Reid Vapor Pressure at 37.8°C	kPa	UAE.S GSO ISO 3007, UAE.S GSO ASTM D 5191, ASTM D 6378, D323	45	60	58
Summer (Mar-Oct)			45	70	60
Winter (Nov-Feb)					
Sulphur, Total	mg/kg	UAE.S GSO ISO 20846 UAE.S GSO ISO 20847, UAE.S GSO ISO 20884 or ASTM D7039, D 5453, D 2622	-	50	10
Manganese Content ²	mg/l	UAE.S GSO ASTM D3831 ASTM D7111, UOP 389	-	5	<1.0
Aromatics	vol. %	UAE.S GSO ISO 22854, UAE.S GSO ISO 3837, UAE.S GSO ASTM D 1319, or D5580	-	40	35.0
Benzene	vol. %	UAE.S GSO ISO 22854, UAE.S GSO ASTM D 1319, ASTM D5580 or D 3606	-	1.5	1.20
Olefins	vol. %	UAE.S GSO ISO 22854 UAE.S GSO ISO 3837, ASTM D 1319 or D 6550	-	18	7.0
Allowed Oxygenate MTBE/ETBE/TAME (If added)	vol. %	UAE.S GSO ISO 22854 UAE.S GSO ASTM D 4815 or UAE.S GSO ASTM D5845	-	15	6.0

Footnotes:

1) It shall be unleaded and free of any metal based additives. No intentional addition of metal based additives is permitted.

2) Metallic compound additives such as MMT and Ferrocene (Iron Carbonyl etc.) are not allowed.

Compounds containing Phosphorous shall not be added as additives to unleaded gasoline.