



MEXICO GASOLINE SPECIFICATIONS

Property	Unit	ASTM Method	Min Value					Max Value						
			AA-2	AA-3	A-1	B-2	C-3	AA-2	AA-3	A-1	B-2	C-3		
<i>Volatility Class</i> →														
Vapor Pressure	kPa	D4953, D5191, D5482, D6378						54	54	62	69	79		
	(psi)	D4953, D5191, D5482, D6378						7.8	7.8	9.0	10.0	11.5		
Distillation Temperature														
Initial boiling temperature														
the 10% distills at														
the 50% distills at	°C	D 86	77	77	77	77	77	70	70	70	65	60		
the 90% distills at								121	121	121	118	116		
Final boiling temperature								190	190	190	190	185		
Distillation Residue	% vol.							225	225	225	225	225		
Vapor lock portection, temperature at V:L=20	°C		56	51	54	50	47	2	2	2	2	2		
Specific Gravity 20/4 °C	Adimensional	D1298, D4052	Inform											
Mercaptan Sulfur	mg/kg	D3227	20											
One of the following requirements must be met:														
Copper corrosion, 3 hours at 50 °C	Adimensional	D130	Standard No. 1											
Silver corrosion	Adimensional	D7667, D7671	Standard No. 1											
Washed Gums	kg/m3 (mg/100mL)	D381	0.05 (5)											
Unwashed Gums	kg/m3 (mg/100mL)	D381	0.7 (70)											
Induction Period	minutes	D525	240											
			Regular		Premium									
Research Octane Number (RON)	Adimensional	D2699	Inform					94.0						
Motor Octane Number (MON)	Adimensional	D2700	82.0					Inform						
Octane Index (RON+MON)/2	Adimensional	D2699 & D2700	87.0					91						
Dispersant detergent additive (note 1)	mg/kg	D5598, D5500)	In concentration sufficient to comply with the EPA specification in CFR 80.165											
<i>All Volatility Classes - Regional Obligations</i>								ZMVM	ZMG	ZMM	ROC Prem.	ROC Reg.		
Aromatics content	% vol	D1319						25.0	25.0	25.0	25.0	Inform		
Olefins content	% vol	D1319						10.0	10.0	10.0	12.5	Inform		
Benzene content	% vol	D3606, D5580, D6277						1.0	1.0	1.0	2.0	2.0		
Sulfur content	mg/kg	D5453, D2622, D7039, D7220						30 annual avg. / 80 per batch						
Oxygen (zones ZMVM, ZMG, ZMM)(notes 5,6)	% mass	D4815, D5845						1.0						
Oxygen (rest of country)(notes 5,6)	% mass	D4815, D5845						2.7						

Notes:

- (1) The additive should be added to the gasolines in national territory during load of tanker trucks or other modes of transport, at storage facilities or distribution centers at the point closest to public utilization, and demonstrated in a semestral report issued by an accredited and approved laboratory with regards to the LFMN, that the required amount of additive is used via the balance of gasoline produced or imported and the corresponding consumption of additive.
- (5) It is permitted to use MTBE (methyl-tert-butyl ether), ETBE (ethyl-tert-butyl ether) and TAME (tert-amyl-methyl ether) as oxygenates in regular and premium gasolines up to a maximum of 2.7 % mass Oxygen in the petroleum fuel, in the entire country.
- (6) Ethanol is prohibited from usage en the ZMVM, ZMG, and ZMM regions. It is permitted to use anhydrous ethanol as oxygenate in regular and premium gasolines up to a maximum of 5.8 % vol. in the petroleum fuel, in rest of the country, in which case because of the physio-chemical properties of this additive, it should be mixed during the load of tanker trucks at the storage installations and distributors at the point closest to public utilization.

Geographic Gasoline Distribution Zones

North	Nuevo Leon, Chihuahua, Durango, Coahuila, Tampaulipas, San Luis Potosi.
Pacific	Baja California, Baja California South, Sonora, Sinaloa, Nayarit, Colima, Guerrero, Oaxaca, Chiapas.
Central	Aguascalientes, Jalisco, Guanajuato, Michoacan, Zacatecas, Morelos, Tlaxcala, Estado de Mexico, Ciudad de Mexico, Hidalgo, Ciudad de Mexico, Hidalgo, Queretaro
Southeast	Veracruz, Campeche, Puebla, Tabasco, Yucatan, Quintana Roo.
ZMVM	Mexico Valley Metroplitain Zone
ZMG	Guadalajara Metroplitain Zone

ZMM Monterrey Metropolitan Zone

ZFN Northern Frontier Zone

ROC Rest of Country

Volatility class specification by geographic region and season

	North	Southeast	Central	Pacific	ZMVM & ZMG	ZMM
January	C-3	C-3	C-3	C-3	AA-3	C-3
February	C-3	C-3	C-3	C-3	AA-3	C-3
March	B-2	B-2	B-2	B-2	AA-2	B-2
April	B-2	B-2	B-2	B-2	AA-2	B-2
May	B-2	B-2	B-2	B-2	AA-2	B-2
June	B-2	A-1	A-1	A-1	AA-2	B-2
July	B-2	A-1	A-1	A-1	AA-3	B-2
August	B-2	A-1	A-1	A-1	AA-3	B-2
September	B-2	B-2	B-2	B-2	AA-3	B-2
October	B-2	B-2	B-2	B-2	AA-3	B-2
November	C-3	C-3	C-3	C-3	AA-3	C-3
December	C-3	C-3	C-3	C-3	AA-3	C-3