

METHOD	DESCRIPTION	MINIMUM	MAXIMUM	TYPICAL
D130	SILVER CORROSION		1.0	
D130	COPPER STRIP CORROSION		1.0	
D381	EXIST. GUM, mg/100mL		5.0	
D525	OXIDATION STABILITY, MIN. R+M/2	240.0 87.0		
D2622	SULFUR, MASS% SULFUR, mg/kg		0.0030	
D7039	COLOR, VISUAL		30.0	
	LEAD CONTENT, g/US gal.			UNDYED
D3237	P CONTENT, g/US gal.		0.05	
D3231	DOCTORS TEST		0.005	
D4952	ETHANOL CONTENT (VOL%)			SWEET
D6729 OR E168	DISTILLATION, °F	9.0	10.0	9.7
D86	10% EVAPORATED, °			
	50% EVAPORATED, °		122	
	END POINT, °	150	230	
	T <sub>v/L</sub> = 20, °F		437	
	VAPOR PRESSURE, psi			
D5188	DRIVEABILITY INDEX, °F	105		
D5191			15.0	
D4814, TABLE 1			1200	

# Specification: Gasoline 92 RON

## 1. Technical requirements and test methods

### 1.1 Requirements and test methods

Table 1

№	Properties	Unit	Value		Test Method
			min	max	
1.	Research octan number, RON		92,0	-	BDS EN ISO 5164
2.	Motor octan number, MON		82,0	-	BDS EN ISO 5163
3.	Density (at 15 °C)	kg/m <sup>3</sup>	720,0	775,0	BDS EN ISO 3675* BDS EN ISO 12185
4.	Lead content	mg/l	-	5	BDS EN 237
5.	Sulphur content	mg/kg	-	50,0	BDS EN ISO 20884 BDS EN ISO 20846 BDS EN ISO 20847
6.	Oxidation stability	min	360	-	BDS EN ISO 7536
7.	Existent gum content (solvent washed)	mg/100ml	-	5,0	BDS EN ISO 6246
8.	Copper strip corrosion (3 h at 50 °C)	rating	class 1		BDS EN ISO 2160
9.	Appearance		clear and bright liquid		visual inspection
10.	Hydrocarbon type content • alkenes(olefins) • arenes(aromatics)	% (V/V)	-	21,0 35,0	ASTM D 1319
11.	Benzene content	% (V/V)	-	1,0	BDS EN 12177* BDS EN 238
12.	Oxygen content	% (m/m)	-	0,25	BDS EN 13132

### 1.2 Volatility requirements and test methods

Table 2

	Properties	Unit	Value		Test Method
			min	max	
1.	Vapour pressure (VP) - Class A - Class C	kPa kPa	45,0 50,0	60,0 80,0	BDS EN 13016-1
2.	Distillation range % evaporated at 70°C, E70 - Class A - Class C % evaporated at 100°C, E100 - Class A - Class C % evaporated at 150°C, E150 - Class A - Class C Final Boiling Point, FBP Distillation residue	% (V/V) % (V/V) % (V/V) % (V/V) % (V/V) % (V/V) °C % (V/V)	20,0 22,0 46,0 46,0 75,0 75,0 - -	48,0 50,0 71,0 71,0 - - 210 2	BDS EN ISO 3405
3.	Vapour Lock index (VLI) - Winter	index	-	1050	10 VP + 7 E70

Seasons: Class A - Summer 01.04 – 30.09; Class C - Winter 01.10 – 31.03.

## Specification: Gasoline 95 RON

Density@15 Deg C [kg/m<sup>3</sup>] 720 to 775 EN ISO 3675 / EN ISO 12185

Index of Octane Research [RON] 95.0 to 96.9 EN 25164

Index of Octane Motor [MON] Min 85.0 EN 25163

Vapor Pressure (VP) [kPa] EN 13016-1

Summer (2) (5)

Winter (3) (5) 45 to 60

50 to 80

Distillation: EN ISO 3405

- evaporated at 70Â°C (summer) (E70) [%V/V] 20 to 48

- evaporated at 70Â°C (winter) (E70) (3)(5) [%V/V] 22 to 50

- evaporated at 100Â°C [%V/V] 46 to 71

- evaporated at 150Â°C [%V/V] min 75

- final boiling point [Â°C] max 210

- residual [%V/V] max 2

VLI (10vp + 7E70) (4)(5) Max 1, 050

Types of hydrocarbons (6) ASTM D 1319 / EN 14517

olefinas [%V/V] max 18.0

aromatic [%V/V] max 35.0

Benzene [%V/V] max 1.0 EN 12177 / EN 238

Content of oxygen [%m/m] max 2.7 EN 1601 / EN 13132

Bleached EN 1601 / EN 13132

MTBE and other ether

with 5 or more atos of C [%V/V] max 15

Other bleaches (7) -7

Sulphur content (8) [mg/kg] max 50 EN 24260 / EN ISO 8754 / EN ISO

14596 Content of leads [gPb/l] max 0.005 EN 237

Cu corrosion (3h at 50Â°C) [scale ASTM] max 1b EN ISO 2160

Oxidation stability [minutes] min 360 EN ISO 7536

Content (lavadas) [mg/100ml] max 5 EN ISO 6246

Fosfor (9) -9

Color (10) [visual] green

Aspect Clear, brilliant

Density@15 Deg C [kg/m<sup>3</sup>] 720 to 775 EN ISO 3675 / EN ISO 12185

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Vapor Pressure (VP) [kPa] EN 13016-1

Summer (2) (5)

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Distillation: EN ISO 3405

- evaporated at 70Â°C (summer) (E70) [%V/V] 20 to 48

- evaporated at 70Â°C (winter) (E70) (3)(5) [%V/V] 22 to 50

- evaporated at 100Â°C [%V/V] 46 to 71

- evaporated at 150Â°C [%V/V] min 75

- final boiling point [Â°C] max 210