



Title: Specification for Automotive Gasoline 98

QS-PL 107

S.N	Property		Test Method	Control Limits
1	Appearance	-	Visual inspection	Clear and Bright ¹
2	Color	-	Visual inspection	Blue
3	Vapor Pressure (VP)	kPa	EN 13016-1	45.0-65.0 (Summer) ² 50.0-70.0 (Winter)
4	Dry Vapor Pressure (DVPE)	kPa	EN 13016-1	Report
5	Density at 15 °C *	Kg/m ³	ASTM D4052	720.0 – 775.0
6	Distillation Characteristics:*		ASTM D86	
6.1	% evaporated at 70 °C	Volume %		20.0-48.0
6.2	% evaporated at 100 °C	Volume %		46.0-71.0
6.3	% evaporated at 150 °C	Volume %		Min. 75.0
6.4	Final Boiling Point	°C		Max. 210
6.5	Residue	Volume %		Max. 2
7	Sulfur content	mg/kg	ASTM D5453	Max. 50.0
8	Copper strip Corrosion (3 h at 50 °C) *	Rating	ASTM D130	Max. Class 1
9	Oxidation Stability	Minutes	ASTM D525	Min. 360
10	Existent gum content (solvent washed)	mg/100 ml	ASTM D381	Max. 5
11	Research octane number, RON	-	ASTM D2699	Min. 98.0
12	Lead content	mg/l	ASTM D3237	Max. 5.0
13	Hydrocarbons Type Content *		ASTM D6839	
13.1	Olefins *	Volume %		Max. 18.0
13.2	Aromatics *	Volume %		Max. 35.0
14	Oxygenate Content *		ASTM D6839	
14.1	Methanol *	Volume %		Max. 3.0
14.2	Ethanol *	Volume %		Max. 5.0
14.3	Iso-propyl alcohol *	Volume %		Report
14.4	Iso-butyl alcohol *	Volume %		Report
14.5	Tert-butyl alcohol *	Volume %		Report
14.6	Ethers (5 or more C atoms) *	Volume %		Report
14.7	Other oxygenates *	Volume %		Report
15	Oxygen content *	Mass %	ASTM D6839	Max. 2.7
16	Benzene Content *	Volume %	ASTM D6839	Max. 1.00
17	Manganese Content	mg/l	EN 16136	Max. 2.0
18	Iron Content	mg/kg	EN 16136	Max. 1.0

¹Clear, bright and visually free from solid matter and undissolved water at ambient fuel temperature.²Winter: from 1-November to 30-April, summer: from 1-May to 31-October.

* Accredited test by JAS-AU.