



ISO/IEC 17025:2017

Jordan Petroleum Refinery CO. LTD  
Laboratories & Quality Control Department



**JAS**  
Jordanian Accreditation System  
نظام الاعتماد الأردني  
Accreditation Unit  
JAS Test-116

Title: Specification for Automotive Gasoline 90<sup>1</sup>

QS-PL 188

S.N	Property		Test Method	Control Limits
1	Appearance	-	Visual inspection	Clear and Bright <sup>2</sup>
2	Color	-	Visual inspection	Pink
3	Vapor Pressure (VP)	kPa	EN 13016-1	45.0-65.0 (Summer) <sup>3</sup> 50.0-70.0 (Winter)
4	Dry Vapor Pressure (DVPE)	kPa	EN 13016-1	Report
5	Density at 15 °C *	Kg/m <sup>3</sup>	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. 500
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. 90.0
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

<sup>1</sup>This Specification is based on Jordanian Technical Regulation for Automotive unleaded Gasoline # JS 164/2018 (5<sup>th</sup> edition) dated on the 16<sup>th</sup> of August, 2018 and amendment # 1/2018 dated 16<sup>th</sup> January, 2019 and amendment # 2/2019 dated 1<sup>st</sup> August, 2019. Except Total Sulfur.

<sup>2</sup> Clear, bright and visually free from solid matter and undissolved water at ambient fuel temperature.

<sup>3</sup> Winter: from 1-November to 30-April, summer: from 1-May to 31-October.

\* Accredited test by JAS-AU.