

 “LUKOIL Neftohim Burgas” JSC	COMPANY TECHNICAL SPECIFICATION	CTS 1-82.01
AUTOMOTIVE FUEL FOR EXPORT REGULAR GRADE UNLEADED PETROL (RON 92)		

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 ³	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 ASTM D 5453
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 BDS EN ISO 22854*
11.	Benzene content	% (V/V)	-	1,0	BDS EN 12177 BDS EN 238 BDS EN ISO 22854*
12.	Oxygen content	% (m/m)	-	0,25	BDS EN 13132 BDS EN ISO 22854*

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

**AUTOMOTIVE FUEL FOR EXPORT
REGULAR GRADE UNLEADED PETROL (RON 92)**

2.	Distillation range				BDS EN ISO 3405
	% evaporated at 70°C, E70				
	– Class A	% (V/V)	20,0	48,0	
	– Class C	% (V/V)	22,0	50,0	
	% evaporated at 100°C, E100				
	– Class A	% (V/V)	46,0	71,0	
	– Class C	% (V/V)	46,0	71,0	
	% evaporated at 150°C, E150				
	– Class A	% (V/V)	75,0	-	
– Class C	% (V/V)	75,0	-		
Final Boiling Point, FBP	°C	-	210		
Distillation residue	% (V/V)	-	2		
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

Notes:

BDS - Bulgarian standard

- * - The method is umpire

2. Product description

Highly flammable liquid with specific odour. Fuel for gasoline combustion engines.

3. Method for production and sampling

3.1 Blending of gasoline fraction. Additives are admissible.

3.2 Sampling procedure corresponds to BDS EN ISO 3170.

Batch is the quantity of one kind or brand liquid fuel, with same qualitative indices, produced by the same technologies, stored in one or more tanks and accompanied by a test document.

4. Storage

4.1. Closed tanks.

4.2 Only dedicated tanks, pipelines, tank cars, etc. shall be used for unleaded gasoline. No mixing with leaded gasoline is allowed.

5. Transportation and documents

5.1 Tankers, tank lorry and rail tanks, observing the transport regulation of fire hazardous materials.

5.2 The product has UN № 1203 according to UNO (United Nations Organization).

5.3 Each shipment shall be accompanied by Quality Certificate of the test results according to point 1.

5.4 Product MSDS (Material Safety Data Sheet) is submitted to the user prior or at the time of first delivery.

end