LUKOIL NEFTOCHIM BOURGAS AD	COMPANY SPECIFICATION	FTS 1.16:2001
	AUTOMOTIVE FUELS AUTOMOTIVE GASOLINE A-95 H	Page 1 of 3

1. FIELD OF APPLICATION

This Company specification applies to the technical requirements for Automotive Unleaded Gasoline A-95 H grade, intended for use in gasoline combustion engines, operating with unleaded gasoline.

2. SPECIFICATION REQUIREMENTS AND TEST METHODS

2.1 The unleaded gasoline A95 H grade, must conform to the requirements, specified in Table 1

TABLE 1 — Specification Requirements and Test Methods

PROPERTIES	STANDARD REQUIREMENTS	TEST METHOD
1. Referent Octane Number (RON), not less than	95.0	EN 25 164-93
2. Motor Octane Number (MON), not less than	85.0	EN 25 163-93
3. Lead, g/dm^3, not more than '	0.013	ASTM D 323 7-97 EN 237-96
4. Benzene, vol. %., not more than	5.0	EN 238-96
5. Density at 15°C, g/cm^3	from 0.725 to 0.765	BSS EN ISO 3675
6. Sulfur, wt. %, not more than	0.05	ASTM D 3120-92 BSS EN ISO 8754-95
7. Induction period at 100°C, min, not less than	360	EN ISO 7536-96
8. Existent gum, mg/100cm^3, not more than	5.0	BSS EN ISO 6246
9. Copper strip corrosion (3hrs at 50°C), *bale*, not more than	1	BSS EN ISO 2160
10. Appearance	Clear, bright liquid	Visual
11. Color identification	Colorless	Visual

2.2 Unleaded gasoline may contain grafts improving their performance.

2.3 No phosphorus containing additives are admissible in unleaded gasoline.

2.4 No more than 15 % of methyl tertiary butyl ether (MTBE) is admissible in unleaded gasoline. The MTBE content is quantified according to the BSS 17181-90.

2.5 The Volatility requirements are specified in Table 2.

IN FORCE AS OF:

TABLE 2 — Volatility requirements

PROPERTIES	STANDARD REQUIREMENT		TEST METHOD
	Summer	Winter	
1. Pressure of saturated vapors according to Reid, kPa, not higher than	60	80	ASTM D 323-94
2. Distillation range			BSS EN ISO 3405
- up to 70 °C recovered, vol. % - not less than not more than	 12 45	 12 45	
- up to 100°C recovered, vol. % not less than not more than	 35 65	 35 70	
- up to 180°C recovered, vol. %, not less than	85		
- Final boiling point (FBP), °C, not higher than	215		
Distillation residue, vol. %, not more than	2		
Summer - from 16th April to 15th October; Winter - from 16th October to 15th April			

3. ACCEPTING AND SAMPLING PROCEDURES

3.1 Accepting of unleaded gasoline is carried out by individual batches, according to the requirements of the BSS 11035-81

3.2 Sampling is carried out according to BSS ISO 3170.

Vessels for collecting and storing samples must not be free from lead contamination.

4. PACKAGING, LABELING, STORAGE AND TRANSPORT

Packaging, labeling, storage and transport of unleaded gasoline is carried out according to the requirements established by the BSS 11035-81 and national law on the transportation of dangerous goods. Only tanks, pipelines, lorry tanks, etc. specifically intended for unleaded gasoline may be used. Mixing with leaded gasoline is not permissible.

Each individual package must be labeled with the toxicity and flammable symbols according to the BSS 16114-85.

5. DOCUMENTATION

5.1. Each separate batch of unleaded gasoline, intended for delivery must be accompanied by a Certificate of Analysis, stating the following:

- Name of the manufacturing company;
- Name of the product;
- Batch number; tank number;
- Date of manufacture;
- Certificate of Analysis number and date of issue;
- Test results according to Section 2;
- Signature of the Head of the Laboratory;
- FTS;

5.2 Each lorry tank must be accompanied by a ticket (computer print-outs), including the following data:

- Name of the product;
- Tank number;
- Certificate of Analysis number and date of issue;
- Number of the lorry tank the ticket is valid for;
- Date of manufacture;
- FTS.

END