

 "LUKOIL Neftohim Burgas" JSC	<b>COMPANY TECHNICAL SPECIFICATION</b>	<b>CTS 1 – 75</b>
<b>FUEL NON-ROAD MACHINERY AND TRACTORS</b>		

### 1. Technical requirements and test methods

№	Properties	Unit	Value		Test Method
			min	max	
1.	Color			1,5	ASTM D 1500
2.	Copper strip corrosion(3h at 50 °C)	bal	-	1	BDS EN ISO 2160 ASTM D 130
3.	Density at 15 °C	kg/m <sup>3</sup>	820,0	845,0	BDS EN ISO 3675 ASTM D 1298 BDS EN ISO 12185
4.	Flash point	°C	58	-	BDS EN ISO 2719 ASTM D 93
5.	Cold filter plugging point(CFPP) ➤ summer ➤ winter	°C	- -	plus 5 minus 15	BDS EN 116 IP 309
6.	Distillation range: ➤ 50 % (V/V) recovered at - summer - winter ➤ 90 % (V/V) recovered at - summer - winter ➤ 95 % (V/V) recovered at - Winter  <b>OR</b> Distillation ➤ Recovered at 250 °C ➤ Recovered at 350 °C ➤ Recovered at 370 °C	°C  % (V/V) % (V/V) % (V/V)	- - - - - - - 85 95	300 280 360 345 360 65 - -	BDS EN ISO 3405 ASTM D 86
7.	Sulphur content	% (m/m)	-	0,0010	BDS EN ISO 20846 ASTM D 5453
8.	Carbon residue (at 10% distillation)	% (m/m)	-	0,30	BDS EN ISO 10370 ASTM D 4530
9.	Kinematics viscosity at 20 °C Kinematics viscosity at 40 °C	mm <sup>2</sup> /s	2,5 2,00	8,0 4,50	BDS EN ISO 3104 ASTM D 445
10.	Ash content	% (m/m)	-	0,01	BDS EN ISO 6245 ASTM D 482

Note:  
BDS – Bulgarian standard

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			min	max	
11.	Cetane index		50,0	-	ASTM D 976
12.	Cetane number		49,0	-	BDS EN ISO 5165 ASTM D 613
13.	Mechanical impurities and water <b>OR</b>	% (V/V)	-	0,05	ASTM D 2709
14.	Water <b>And</b> Total contamination	mg/kg mg/kg	- -	200 24	BDS EN ISO 12937 IP 440
15.	Oxidation stability	g/m <sup>3</sup>	-	25	BDS EN ISO 12205 ASTM D 2274
16.	Lubricity, corrected wear scar diameter (wsd 1,4) at 60 <sup>0</sup> C	µm	-	460	BDS ISO 12156-1
17.	Polycyclic aromatic hydrocarbons	% (m/m)	-	8	BDS EN 12916

**Summer: from 16. 04 until 15. 10.**

**Winter: from 16. 10 until 15. 04.**

## 2. Product description

Straw-yellow, highly flammable liquid with specific odour.

## 3. Method for production and sampling

3.1 Blending of gasoline fractions from primary and secondary crude oil processing after hydrotreatment. Additives are admissible.

3.2 Sampling procedure corresponds to BDS EN ISO 3170.

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

## 4. Storage

Closed tanks.

## 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 № 1202 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 SDS ( Safety Data Sheet) is submitted to the user prior or at the time of first delivery.

**end**

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