



Specification of Heavy Fuel Oil MAZUT M100 (GOST 10585/75)

COMPONENT..... RESULT

Ash content, not more %	0.14
Mass fraction of sulphur, not more % - low sulphur residual oil..	0.8
Temperature of the flash, °C in the open crucible °C.....	110 Min
The temperature of pour point, not higher °C	25
Kinematics viscosity.....	118 max
Water content, %.....	0.5
Mechanical impurities, Lower than %.....	0.1
Acidity Lower than, mg KOH/ 100ml.....	5
Alkalinity.....	nil
Gross Calorific Value, Kcal/kg / KJ/kg.....	9200/41300 Min
Density at 15.0 °C Kg/l	0.8800-0.9000
Hydrogen Sulphide Content (H ₂ S) pom	0.5 max
Carbon Residual, Lower than %.....	7
Vanadium (V) ppm.....	123
Aluminium (Al) ppm.....	5
Silikon (Si) ppm.....	12
Nickel (Ni) ppm.....	49
Asphaltenes m/m, %.....	3.6
Distillation @.....	4 mm Hg
Extracted to	760 mm Hg
Initial Boiling Point deg. C	216
5% recovered deg. C	259
10% recovered deg. C	310
24% recovered deg. C	358
30% recovered deg. C	445
40% recovered deg. C	502
50% recovered deg. C	534
60% recovered deg. C	538
75% recovered deg. C	545
80% recovered deg. C	-
95% recovered deg. C	550
End Boiling Point deg. C.....	560
Percent Recovered vol.....	78%
Total Nitrogen m/m.....	0.192%
Sodium (Na) ppm.....	15



Specifications: GOST 305/82

1. Density at 20oC, Kg/m3..... Max 860
2. Fraction composition (Distillation):
 - a. 50% distilled at Co..... Max 280
 - b. 96% distilled at Co..... Max 360
3. Cetane Index, min..... Min 45
4. Kinematic Viscosity at 20 Co, mm2 (cst)... Min/Max 3.6-6.0
5. Acidity, mg KON for 100 cm3 of fuel..... Max 10
6. Ash Contents %..... Max 0.01
7. Sulfur Contents %..... Max 0.2
8. Mercaptan Sulfur Contents %..... Max 0.02
9. Hydrogen Sulfide Contents..... None
10. Copper Plate Test..... Passed
11. Water Soluble Acids & Alkalis..... None
12. Contents of Mechanical Impurities..... None
13. Water Contents..... None
14. Flash Point Determined in a Closed Cap, 20 Co..... Min. 62
15. Pour point, Co..... Max -10
16. Turbidity Temperature, Co..... Max -5
17. Iodine Number, g/iodine per 100 g of fuel..... Max 5
18. Actual Resins, mg per 100 cm3 of fuel..... Max 25
19. Coking Capability of 10% residue, %..... Max 0.2
20. Color ASTM Max 2.0



SPECIFICATIONS for Russian Origin Gas Oil 0.2/62 (GOST 305-82)

COMPONENT	UNIT	MIN.	MAX.
Density@ 20 deg C	Kg/m ³		0,870
Colour			2,0
Flash point, PMCC	deg C (°C)	57	62
Kinematic viscosity @20 deg C	C ST	3,0	6,0
Pour point	deg C (°C)	(*)	-10,0
Cloud point	deg C (°C)	(*)	-5,0
Mercaptan sulphur			0,01
Acidity, mg / 1000 cm ³			5
Iodine number	g/100g		6
Ash		%wt	0,01
Total Sulphur	%wt	0,02	0,05
Copper corrosion	3 hrs@50 deg C	(typical)	1 A
CCR on 10% Residues	%wt		0.20
Cetane index		45	
Distillation range :			
- 50% Recovered Volume	deg C (°C)		280
- 90% Recovered Volume	deg C (°C)		360
- Bacteria MBC	Fibre / it		500
- Bacteria CFU	Fibre / it		1000