

## JET FUEL

**CAS #:** 8008-20-6

**PRODUCT TRADE NAME:** JET ENGINE FUEL RT

**INDUSTRY STANDARD:** GOST 10227-86

**USE OF THE CHEMICAL:** FUEL FOR SUBSONIC AIRCRAFT

**SUPPLIER DETAILS:** WESPECH PTE. LTD., 8 EU TONG SEN STREET, #14-94, THE CENTRAL, SINGAPORE (059818)

**MANUFACTURER DETAILS:** ORSKNEFTEORGSIINTEZ, GONCHAROVA 1A, ORSK, ORENBURGSKAJA OBLAST, RUSSIA 462407

**HANDLING, STORAGE, TRANSPORT AND SAFETY:** AS INDICATED IN THE SAFETY DATA SHEET

### PHYSICAL AND CHEMICAL PROPERTIES:

##	PARAMETER	NORMAL VALUE
1	DENSITY AT 20 °C, KG/M, $\geq$	775
2	FRACTIONAL COMPOSITION:	
2.1	INITIAL BOILING POINT, °C:	
2.1.1	$\geq$	135
2.1.2	$\leq$	155
2.2	10% DISTIL OFF AT TEMPERATURE, °C, $\leq$	175
2.3	50% DISTIL OFF AT TEMPERATURE, °C, $\leq$	225
2.4	90% DISTIL OFF AT TEMPERATURE, °C, $\leq$	270
2.5	98% DISTIL OFF AT TEMPERATURE, °C, $\leq$	280
2.6	DISTILLATION RESIDUE, %, $\leq$	1,5
2.7	DISTILLATION LOSS, %, $\leq$	1,5
3	KINEMATIC VISCOSITY, MM <sup>2</sup> /C (CST), AT TEMPERATURE:	

3.1	20 °C, ≥	1,25 (1,25)
3.2	MINUS 40 °C, ≤	-
3.3	MINUS 20 °C, ≤	8
4	FUEL LOWER HEATING VALUE, KJ/KG, ≥	43120
5	SMOKE POINT, MM, ≥	25
6	ACIDITY, MG KOH PER 100 CM OF FUEL, ≤	-
6.1	AT THE LIMIT	0,2 ÷ 0,7
7	IODINE NUMBER, GRAM IODINE PER 100 GRAM OF FUEL, ≤	0,5
8	CLOSED-CUP FLASH POINT, °C, ≥	28
9	CHILLING POINT, °C, ≤	-55
10	THERMO-OXIDATIVE STABILITY AT STATIC CONDITIONS AT 150 °C, ≤:	
10.1	SEDIMENT CONCENTRATION, MG/100 CM OF FUEL	6
10.2	CONCENTRATION OF SOLUBLE TARS, MG/100 CM OF FUEL	30
10.3	CONCENTRATION OF INSOLUBLE TARS, MG/100 CM OF FUEL	3
11	W/W% OF AROMATIC HYDROCARBONS, ≤	20 (22)
12	CONCENTRATION OF SOLUBLE GUMS, MG/100 CM OF FUEL, ≤	4
13	W/W% OF TOTAL SULFUR, ≤	0,1
14	W/W% OF MERCAPTAN SULFUR, ≤	0,003
15	W/W% OF HYDROGEN SULFIDE	
16	COPPER TEST AT 100 °C DURING 3 HOURS	
17	ASH-CONTENT, ≤	0,003
18	WATER-SOLUBLE ACIDS AND ALKALIES CONTENT	
19	NAPHTHENIC ACID SOAPS CONTENT	-
20	MECHANICAL ADMIXTURES AND WATER CONTENT	
21	W/W% OF NAPHTHALENE HYDROCARBONS, ≤	1,5
22	LUMINIMETRIC NUMBER, ≥	50
23	THERMO-OXIDATIVE STABILITY, DEFINED BY DYNAMIC METHOD AT 150-180 °C:	
23.1	PRESSURE DIFFERENCE ON FILTER AT 5 HOURS, HPA, ≤	10
23.2	DEPOSITS ON THE HEATER, POINTS, ≤	2

24	INTERACTION WITH WATER, POINTS, ≤:	
24.1	INTERFACE SURFACE STATE	1
24.2	PHASE INTERFACE STATE	1
25	ELECTRIC CONDUCTIVITY, SM/M:	
25.1	FREE OF ANTISTATIC ADDITIVE AT TEMPERATURE 20 °C, ≤	10
25.2	WITH ANTISTATIC ADDITIVE (AT TEMPERATURE OF AIRCRAFT FUELING), AT THE LIMIT	50 ÷ 600
26	SATURATED VAPOUR PRESSURE, HPA (MM MERCURY), ≤	-
27	CONTENT OF WATER-SOLUBLE ALKALI COMPOUNDS, SUM	-
28	THERMO-OXIDATIVE STABILITY AT CONTROL TEMPERATURE ≥ 260 °C:	
28.1	FILTER PRESSURE DIFFERENTIAL, MM MERCURY, ≤	25
28.2	COLOR OF DEPOSITS ON THE TUBE, CHROMATIC SCALE POINTS (AT ABSENCE OF UNCHARACTERISTIC DEPOSITS), ≤	3

EXPLANATORY NOTE: THE CHEMICAL IS FREE OF ANTISTATIC ADDITIVE; THE CHEMICAL CONTAINS ANTIOXIDANT ADDITIVE AGIDOL (0,003%) AND WEAR-RESISTANT ADDITIVE HITEC 580 (0,003%)