

STANDARD SPECIFICATION OF RUSSIAN DIESEL EN590

Diesel Fuel

Specifications for common storage of Diesel Fuel, Requirements, Test Methods and Threshold Values

| Specifications | Unit | Threshold values acc to DIN EN 590 | Requirements not specified / stricter than DIN EN 590 | Test method |
|---|----------------------------|--|---|--|
| Appearance | ---- | ---- | Clear at 20 °C (01.03.-31.10.) Clear at 10 °C (01.11.-29.02.) (free from any visible water and solid foreign particles) | Visual |
| Colour | ---- | ---- | Max. 2 | DIN ISO 2049 |
| Density at 15° | kg/m ³ | Min. 820 max. 845 | ---- | EN ISO 3675:1998 EN ISO 12185:1996 |
| Cetane (acc. to CFR) Number (acc. to BASF) | ---- | min. 51 min. 52.2 | ---- | EN ISO 5165:1998 DIN 51773 |
| Cetane index | ---- | min. 46 | ---- | EN ISO 4264 |
| Viscosity at 40 °C | mm ² /S | 2 – 4,5 | ---- | EN ISO 3104 |
| Flashpoint | °C | min. 55 | min. 59 | EN 22719 |
| Neutralisation number | mg KOH/g | ---- | max. 0.2 | DIN 51558 Part 1 |
| Corrosive effect on copper (3h at 50 °C degree) | Corrosion | max. 1 | ---- | EN ISO 2160 |
| Total contamination, indicated as mass concentration | mg/kg. | max. 24 | ---- | EN 12662 |
| Oxidation stability, indicated as mass concentration | g/m ³ | max. | ---- | EN ISO 12205 |
| Sulphur Content | mg/kg | max. 10 | ---- | EN ISO 20884 EN ISO 20846 ASTM D 5453 DIN 51400-T11 |
| Carbon residue distillation residue | % (m/m) | Max. 0,3 | ---- | EN ISO 10370 |
| Ash Content | % (m/m) | Max. 0,01 | ---- | EN ISO 6245 |
| Distillation at 250 °C 350 °C at 95% | Vol. % Vol. % Vol. % | <65 Min. 85 --- Max. 360 °C | ---- ---- ---- | prEN ISO 3405:1998 |
| Lubricity Micrometer | Micrometer | Max. 460 | ---- | ISO12156-1 |
| Conductivity at 20 °C | Ps/M | ---- | Min.50 ps/M | DIN 51412-2 ASTM D 2624 |
| Polycyclic aromatic hydrocarbons (PAH) | % (m/m) | max. 11% | ---- | EN 12916 IP 391/95 |
| Water content | mg/kg | max. 200 | ---- | prEN ISO 12937:1996 |
| Fatty acid methyl ester Content (FAME)*** | %V/V | max. 5 | ---- | EN 14078 |
| Cold flow properties* 01.03.-14.04. 15.04.-14.09 15.09.-14.10. 15.10.-31.10. 01.11.-28.02.** | °C | CFPP -10 (01.03.14.04.) .0 (15.04.-30.09.) -10 (01.10.-15.11.) -20 (16.11.-28.02.) | CP/CFPP 3/-13 +5/-2 -3/-13 -3/-13 -7/-22 | ISO 3015 EN 116 / IP 309 |

* * Shipping date from shipping point.

** Addition of max. 500 ml/1000 l flow improver or addition of at least 150 ml/1000 l WASA, depending on storage site.

*** FAME must meet the EN14214 requirements.

Diesel fuel must not be treated with acid and/or alkaline solution.

Diesel fuel must be free from PCBs and/or other aromatic organically bound chlorine.

Otherwise all other requirements stipulated in DIN EN 590 (the most recent edition in each case) apply.

Appropriate measures taken by the manufacturer/supplier ensure that when applying ISO 4259 the requirements of this specification are met.

