

BITUMEN EXPORT GROUP

LOW SULPHUR GASOIL Quality Specification

| SPECIFICATION | | | TEST METHOD | |
|-----------------------------------------|------------------|---------|-------------------------------|-------------|
| | SUMMER | WINTER | EN | ASTM |
| Min Density (kg/l) | 0.8200 | | EN ISO 3675, EN ISO 12185 | ASTM D 4052 |
| Max Density (kg/l) | 0.8450 | | | |
| Sulphur (ppm) | max 10 ppm | | EN ISO 20846, EN ISO 20884 | ASTM D 5453 |
| Appearance | Clear and Bright | | Visual | Visual |
| Cloud (°C) | max +5 | max -7 | EN 23015 | ASTM D 2500 |
| CFPP (°C) | max -2 | max -22 | EN 116 | ASTM D 6371 |
| Distillation: | % vol | | EN ISO 3405 | ASTM D 86 |
| Recovered at 250 °C | < 65 | | | |
| Recovered at 350 °C | min 85 | | | |
| Recovered at 95% | max 360 | | | |
| Cetane Index | min 46 | | EN ISO 4264 | ASTM D 4737 |
| Cetane Number | min 51 | | EN ISO 5165, EN 15195 | ASTM D 613 |
| Flash (°C) | min 56 | | EN ISO 2719 | ASTM D 93 A |
| Colour | max 2.0 | | ISO 2049 | ASTM D 1500 |
| Lubricity (uM) | max 460 | | EN ISO 12156-1 | ASTM D 6079 |
| Conductivity (pS/M) @ 20°C | min 50 | | DIN 51412-2 | ASTM D 2624 |
| Water (ppm) | max 200 | | EN ISO 12937 | ASTM E 1064 |
| Viscosity (cST) @ 40 °C | 2 — 4.5 | | EN ISO 3104 | ASTM D 445 |
| Copper Corrosion (Grade) | max 1 | | EN ISO 2160 | ASTM D 130 |
| Oxidation stability (g/M ₃) | max 25 | | EN ISO 12205 | ASTM D 2274 |
| Carbon Residue (% mass) | max 0.3 | | EN ISO 10370 | ASTM D 4530 |
| Acid Number (mgKOH/G) | max 0.2 | | DIN 51558 — Part1 | ASTM D 664 |
| Ash (% mass) | max 0.01 | | EN ISO 6245 | ASTM D 482 |
| Particulate matter (ppm) | max 24 | | EN 12662 | IP 440 |
| Poly Aromatics (% mass) | max 8 | | EN 12916 | ASTM D 6591 |
| FAME (% mass) | max 0.3 | | EN 14078 | ASTM D 7371 |

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