

## DOMESTIC HEATING OIL

| Property  | Unit               | Limits   | Test method  |
|---|--------------------|--|--|
| Appearance  |                    | Clear, bright and free from solid particles and segregated water <sup>a)</sup> | Visual inspection  |
| Color   |                    | ≤ 2.0  | ISO 2049   |
| Density at 15°C   | kg/m <sup>3</sup>  | ≤ 860  | EN ISO 3675<br>EN ISO 12185<br>ASTM D 4052                                       |
| Flash point   | °C                 | > 55   | EN ISO 2719  |
| Filterability (CFPP) <sup>b)</sup>  | °C                 | ≤ -10  | EN 116   |
| Viscosity at 20°C   | mm <sup>2</sup> /s | 2.5 - 6.0  | EN ISO 3104  |
| Distillation  |                    |  | EN ISO 3405  |
| Recovered at 350°C  | % (V/V)            | ≥ 85   |  |
| Sulfur content  | % (m/m)            | ≤ 0.10   | EN 24260<br>EN ISO 14596<br>EN ISO 8754<br>DIN 51400, 1.+7. Part<br>EN ISO 20884 |
| Copper strip corrosion (3h at 50°C)   | rating             | class 1  | EN ISO 2160  |
| Carbon residue (on 10% (V/V) distillation residue)  | % (m/m)            | ≤ 0.15   | EN ISO 10370   |
| Ash content   | % (m/m)            | ≤ 0.01   | EN ISO 6245  |
| Water content   | mg/kg              | ≤ 200  | EN ISO 12937   |
| Total contamination   | mg/kg              | ≤ 20   | EN 12662   |
| Net heat of combustion  | MJ/kg              | ≥ 42.60  | DIN 51900, 1.+2. or 3. Part<br>ASTM D 4868                                       |
| Fatty acid methyl ester (FAME) content  | % (V/V)            | under limit of detection   | EN 14078   |
| <p>a) The fuel is red coloured and marked with "C. I. Solvent Yellow 124" (min. 6.0 g and max. 9.0 g of marker per 1000 l of extra light fuel oil at 15°C).</p> <p>b) Limits are set for three different periods:<br/>           Period I.: Summer season 15/04 – 30/09<br/>           Period II.: Autumn season 01/10 – 15/11 and<br/>           Spring season 01/03 – 14/04<br/>           Period III.: Winter season 16/11 – 28/02 or 29/02 next year</p> <p>Additional notes:<br/>           - All necessary additives shall be added into the fuel by the performing refinery (excluding fuel colouring and marking).<br/>           - In case of dispute or different interpretation of results, SIST 1011 (Slovenian standard for Domestic heating oil) shall be used.</p> |                    |  |  |