



# Certificate of Analysis

Reference Material FO-240399

Institute for  
Interlaboratory Studies

## Fuel Oil

Reference Material FO-240399 consists of a 25 ml ampoule, containing approximately 22.5 ml of low viscosity bunker Fuel Oil No. 6. This RM is intended primarily as a quality control material for use in the determination of Micro Carbon Residu in accordance with ASTM D4530:1993.

### Certified Property Values

The certified value is given in table 1. The certified value in table 1 has been derived from the results obtained from an international interlaboratory study in which 40 laboratories participated. The results of this interlaboratory study are presented and discussed in the I.I.S. report IIS99F01.

**Table 1. Certified values<sup>b</sup> for FO-240399.**

<u>Parameter</u>	<u>Certified value<sup>a</sup></u>
Micro Carbon Residue, %M/M	16.86 ± 0.20

- a) The estimated uncertainty is given as 95% confidence limits  
b) The following value was also determined for this RM. This value is not certified, but for indication only:  
Density @ 15°C, Kg/L: 0.98176 ± 0.00012

### NOTICE AND WARNINGS TO USERS

Shelf life: The preparation of this RM was finished March 24, 1999. When stored properly and unopened, the expire date of this RM is **March 2016**. I.I.S. regularly checks the validity of the RM's in stock. In case of any doubt about the validity of the RM you are advised to contact I.I.S.


Storage: Ampoules should be stored in a dark and cool place, preferably at a temperature between 0 °C and + 10 °C.

#### Suggested procedure for use of the RM as quality control sample:

Warm the ampoule to a temperature between 25 and 35 °C. Do not keep the contents at this temperature for longer than one hour. Before opening the ampoule and taking a sample for analysis, the contents must be mixed to ensure homogeneity. Once the ampoule has been opened, the material is susceptible to contamination (e.g. laboratory dust or vapours) or losses. Certified values are not applicable to ampoules stored after opening, even if resealed.

Safety handling instructions: Fuel Oil is harmful if swallowed; therefore, care should be exercised during handling and use. Use proper methods for disposal of waste.

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dr. R.G. Visser  
Institute for Interlaboratory Studies