

Japan Customs Analysis Methods

No. 306

Determination of Specific Gravity for Heavy Fuel Oils and Raw Oils

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1. Scope

This analysis method is applied for determination of specific gravities for heavy fuel oils and raw oils which are stipulated in heading 27.10 of Customs Tariff Law (Appendix Table - Customs Tariff Schedule) and which are in states of semi-solid or solid at 15 °C.

“Samples in states of semi-solid or solid” mean the followings: First, sample is heated to be melted. Then a Hubbard-type pyknometer bottle is roughly half-filled with the melted sample and is left to stand for cool. The bottle is subsequently placed in a water bath maintained at a constant temperature of 15°C. After 1 hour of bathing, the bottle containing the sample is tilted. If the sample does not flow, it is considered to be semi-solid or solid.

2. Procedure

Refer to the JIS K 2249-3:2011 (ISO3838: 2004, MOD*). For measurement, the capillary pyknometer method using a Hubbard type pyknometer shall be applied.

*) MOD: modified