

FLASH POINT CHECK

Closed Cup Flash Point Test/ Pensky-Martens

On the one hand, it can happen that the delivered mineral oil does not correspond to the original specifications. Due to security precautions the international regulations establish the minimum flash point of 60 °C for fuels to be used on board. On the other hand, in the process of operation the flash point of oil can be significantly shifted (e.g., in case of light fuel oil dilution). Therefore, the FLASH POINT CHECK test device is specifically developed to enable regular verification of the flash point, namely the lowest temperature required to build a flammable vapor above a fluid. Thereby, it is possible to identify possibly hazardous liquids in due time.



Features:

- Measuring range: ambient temperature – up to 200°C
- Measuring time: about 15 min.
- Accuracy: +/- 2% < 100 °C
+/- 6% > 100 °C

Benefits:

- Closed cup method relying on ISO 2719 DIN 22719 and ASTM D-93
- Flash point read-out in °C
- Approved by German Navy for field use

The simple test procedure starts when the oil is filled into the cup and the device is placed on the heating source. The oil sample has to be slowly heated up to the temperature of about 20 °C below the expected flash point and stirred from time to time. Afterwards, the sample is checked for inflammability with one degree temperature increase interval by pressing the ignition device down. As soon as the inflammation of gas occurs, the exact flash point is detected and the corresponding temperature is directly observable on the thermometer.

