

## Petroleum products - Determination of the water separation capacity of mineral oils and synthetic fluids

In factories and industrial plants, water can enter the oil lubrication system. This would lead to premature ageing of the oil and tearing of the lubricating film.

### Scope

This International Standard describes a method for determining the ability of mineral oils or synthetic liquids to separate from water at a specified temperature.

This test method has been specifically developed for steam turbine oils with viscosities ranging from 32 mm<sup>2</sup>/s to 95 mm<sup>2</sup>/s, but it may also be used to test the water separation ability of oils of other types and viscosities and also to test synthetic fluids.

### Brief description

Stir a 40 ml sample of mineral oil or synthetic liquid and 40 ml of distilled water in a graduated cylinder for 5 minutes at test temperature. The time for separation of the emulsion formed is recorded. If complete separation has not been achieved after standing for one hour, indicate the remaining volumes of oil (or liquid), water and emulsion at that time.



**DMT GmbH & Co. KG**

Tremoniastraße 13

44137 Dortmund

Tel +49 231-5333-240

Fax +49 231-5333-299

[www.dmt-group.com](http://www.dmt-group.com) · [aps@dm-group.com](mailto:aps@dm-group.com)

