

## Cloud and Pour Point - CAPP I (semi-automatic)

ASTM D 97, ASTM D 2500, ASTM D 5853, ISO 3015, ISO 3016, DIN 51597 (obs.), EN 23015, FTM 791-0201, IP 15, IP 219, IP 441, JIS K2269, JIS K2601, NF T60-105, BS 4458 (obs.)

**Product group(s):** Cold Behaviour, Oil

**User group(s):** Biofuel, Diesel, Engine Oil, Fuel, Gas Turbine Fuel, Insulating Oil, Mastics, Paint, Turbine Oil, Varnish

**Scope:** This test method is intended for use on any petroleum product. A procedure suitable for black specimens, cylinder stock, and non-distillate fuel oil.

A procedure for testing the fluidity of a residual fuel oil at a specified temperature.

The cloud point is that temperature at which a petroleum oil starts becoming hazy or begins to precipitate paraffin or other solid substances.

The pour point is the temperature, which is obtained when adding 3 K to that temperature at which a petroleum oil, being chilled under defined conditions, does not flow any longer.

Pour Point Tests ASTM D 5853-6 require a pressure vessel (13-0701) and a water bath (13-0705) in addition.



### Cloud and Pour Point CAPP I - Test Equipment

More details are mentioned in the "Order Number" section

### Technical Data

Dimensions: 550 x 700 x 850 mm

Weight: 110 kg

## Main Unit

### 16-2359 CAPP I Metal-Block-Cryostat, 1 chamber, 4 test-positions

ASTM D 97 - ASTM D 2500 - ASTM D 5853 - ISO 3015 - ISO 3016 - EN 23015 - FTM 791-0201 - IP 15 - IP 219 - IP 441 - JIS K2269 - JIS K2601 - NF T60-105 (BS 4458, DIN 51597 obs.)

Consisting of:

air-cooled refrigeration cabinet on castors, cooling compressor with R404A filling, 1 aluminum-block test chamber with 4 test places avoiding the use of any hazardous bath medium, the aluminum block also serves as an air jacket; electronic temperature control in the range of +20 ... -68 °C block-temperature, digital display of real temperature

Accessories:

4 test jars with filling marks  
4 insulating disks  
4 rubber gaskets  
4 thermometers ASTM 5C  
1 thermometer ASTM 6C

Power supply: 230 V, 50 Hz

### 16-2358

### CAPP I Metal-Block-Cryostat, 1 chamber, 4 test-positions

Like 16-2359 but:

Power supply: 115 V, 60 Hz

## Spare Parts

16-0371	<b>Thermometer ASTM 5C / IP 1C</b> Range: -38 to +50 : 1 °C Length: 230 mm, Immersion: 108 mm, Ø 7 mm
16-0372	<b>Thermometer ASTM 5C / IP 1C</b> Range: -38 to +50 : 1 °C (officially certified)
16-0375	<b>Thermometer ASTM 6C / IP 2C</b> Range: -80 to +20 : 1 °C Length: 230 mm, Immersion: 76 mm, Ø 7 mm
16-0376	<b>Thermometer ASTM 6C / IP 2C</b> Range: -80 to +20 : 1 °C (officially certified)
17-0042	<b>Thermometer ASTM 61C / IP 63C</b> Range: +32 to +127 : 0.2 °C Length: 303 mm, Immersion: total, Ø 6.5 mm
17-0043	<b>Thermometer ASTM 61C / IP 63C</b> Range: +32 to +127 : 0.2 °C (officially certified)
16-0361	<b>Test Jar, flat bottomed glass</b> with filling mark, Ø 34 x 120 mm
16-0367	<b>Spacer Rings, set of 10</b> for CFPP-units made until 1/2002
16-0363	<b>Insulating Plate, made of laminated fabric</b> fitting into air jacket, outside Ø 34 x 120 mm
16-0385	<b>Stopper, NBR-rubber (35/60 / bored Ø 7 mm)</b>

## Order Guideline

Minimum equipment:	1x 16-2359
Spares (approx. 1 year):	Thermometer, 16-0361, 16-0367, 16-0385
Additional requirements:	