

# DIN EN ISO 12185:2024-06 (E)

## Crude petroleum, petroleum products and related products - Determination of density - Laboratory density meter with an oscillating U-tube sensor (ISO 12185:2024)

---

<b>Contents</b>	<b>Page</b>
<b>European foreword</b> .....	<b>3</b>
<b>Foreword</b> .....	<b>4</b>
<b>Introduction</b> .....	<b>5</b>
<b>1 Scope</b> .....	<b>6</b>
<b>2 Normative references</b> .....	<b>6</b>
<b>3 Terms and definitions</b> .....	<b>6</b>
<b>4 Principle</b> .....	<b>8</b>
<b>5 Apparatus</b> .....	<b>8</b>
5.1 Density meter.....	8
5.2 Homogenizer.....	8
5.3 Constant-temperature bath.....	8
<b>6 Reagents and materials</b> .....	<b>8</b>
6.1 Flushing solvent.....	8
6.2 Adjustment liquids.....	9
<b>7 Sampling</b> .....	<b>9</b>
<b>8 Sample preparation</b> .....	<b>10</b>
<b>9 Apparatus preparation</b> .....	<b>10</b>
9.1 Test temperature.....	10
9.2 Cell cleaning.....	10
9.3 Meter verification and adjustment.....	11
9.4 Meter calibration.....	11
9.5 Quality control checks.....	11
<b>10 Test procedure</b> .....	<b>11</b>
<b>11 Calculation</b> .....	<b>12</b>
<b>12 Test report</b> .....	<b>12</b>
<b>13 Precision</b> .....	<b>12</b>
13.1 Repeatability, <i>r</i> .....	12
13.2 Reproducibility, <i>R</i> .....	13
<b>Annex A (informative) Meter calibration</b> .....	<b>14</b>
<b>Bibliography</b> .....	<b>16</b>