

# ISO 13511:2025-03 (E)

## Petroleum products and lubricants - Rheological properties of lubricating greases - Determination of the consistency of greases with metal soap thickener by an oscillatory rheometer with a cone/plate measuring system

---

<b>Contents</b>		<b>Page</b>
<b>Foreword</b>		<b>iv</b>
<b>1</b>	<b>Scope</b>	<b>1</b>
<b>2</b>	<b>Normative references</b>	<b>1</b>
<b>3</b>	<b>Terms and definitions</b>	<b>1</b>
<b>4</b>	<b>Symbols</b>	<b>2</b>
<b>5</b>	<b>Principle</b>	<b>2</b>
<b>6</b>	<b>Reagents and materials</b>	<b>2</b>
<b>7</b>	<b>Apparatus</b>	<b>2</b>
<b>8</b>	<b>Sampling</b>	<b>3</b>
<b>9</b>	<b>Procedure</b>	<b>3</b>
	9.1 Cleaning of the measuring system	3
	9.2 Tempering	3
	9.3 Setting the measuring gap and filling the measuring system cone/plate	3
	9.4 Measurement	3
<b>10</b>	<b>Evaluation</b>	<b>4</b>
<b>11</b>	<b>Expression of results</b>	<b>7</b>
<b>12</b>	<b>Precision</b>	<b>8</b>
	12.1 General	8
	12.2 Repeatability, $r$	8
	12.3 Reproducibility, $R$	8
<b>13</b>	<b>Test report</b>	<b>8</b>
<b>Annex A (informative) Explanation and the derivation of the factor 0,071</b>		<b>9</b>
<b>Bibliography</b>		<b>14</b>