

# ISO 14085-3:2015-03 (E)

## Aerospace series - Hydraulic filter elements - Test methods - Part 3: Filtration efficiency and retention capacity

---

<b>Contents</b>		<b>Page</b>
Foreword.....		iv
Introduction.....		v
<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>2</b>
<b>4</b> <b>Symbols and abbreviated terms</b> .....		<b>4</b>
<b>5</b> <b>Test procedure overview</b> .....		<b>6</b>
<b>6</b> <b>Test equipment and supplies</b> .....		<b>6</b>
<b>7</b> <b>Instrument accuracy and allowable test condition variation</b> .....		<b>10</b>
<b>8</b> <b>Test equipment validation</b> .....		<b>10</b>
<b>9</b> <b>Summary of information required prior to testing</b> .....		<b>14</b>
<b>10</b> <b>Preliminary test preparation</b> .....		<b>14</b>
10.1   Test filter assembly.....		14
10.2   Contaminant injection system.....		14
10.3   Steady flow filter test system.....		15
10.4   Cyclic flow filter test system.....		17
<b>11</b> <b>Filter element efficiency test</b> .....		<b>17</b>
11.1   Steady flow test.....		17
11.2   Cyclic flow test.....		18
<b>12</b> <b>Calculation and data reporting</b> .....		<b>20</b>
12.1   Filtration ratio and retention capacity.....		20
12.2   Calculation of stabilized particle counts for cyclic flow test.....		24
<b>13</b> <b>Identification statement (reference to this part of ISO 14085)</b> .....		<b>25</b>
<b>Annex A (normative) Properties of test fluid to evaluate performance of hydraulic fluid systems filter elements</b> .....		<b>30</b>
<b>Annex B (informative) Test system design guide</b> .....		<b>32</b>
<b>Bibliography</b> .....		<b>37</b>