

# ISO 9455-6:2022-12 (E)

## Soft soldering fluxes - Test methods - Part 6: Determination and detection of halide (excluding fluoride) content

---

<b>Contents</b>		<b>Page</b>
Foreword .....		iv
<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>Method A: Potentiometric method (Reference method) .....</b>	<b>1</b>
4.1	Principle .....	1
4.2	Reagents .....	2
4.3	Apparatus .....	2
4.4	Procedure .....	2
4.5	Calculation of results .....	3
<b>5</b>	<b>Method B: Titration method for halide (excluding fluoride) content of water-soluble fluxes .....</b>	<b>3</b>
5.1	Principle .....	3
5.2	Reagents .....	4
5.3	Apparatus .....	4
5.4	Procedure .....	4
5.5	Standardization of the ammonium thiocyanate solution (5.2.2) .....	5
5.6	Calculation of results .....	5
<b>6</b>	<b>Method C: Titration method for the determination of halide (excluding fluoride) content of water-soluble fluxes containing phosphates .....</b>	<b>5</b>
6.1	Principle .....	5
6.2	Reagents .....	6
6.3	Apparatus .....	6
6.4	Procedure .....	6
6.5	Standardization of the ammonium thiocyanate solution (6.2.2) .....	7
6.6	Calculation of results .....	7
<b>7</b>	<b>Method D: Qualitative test for the presence of ionic halides in flux .....</b>	<b>7</b>
7.1	Principle .....	7
7.2	Reagents .....	7
7.3	Apparatus .....	8
7.4	Procedure .....	8
7.4.1	Preparation of flux test solution .....	8
7.4.2	Test procedure .....	9
<b>8</b>	<b>Precision .....</b>	<b>9</b>
8.1	General .....	9
8.2	Method A .....	10
8.3	Method B .....	10
8.4	Method C .....	10
<b>9</b>	<b>Test report .....</b>	<b>10</b>
<b>Annex A (normative) Method for standardizing the silver nitrate solution .....</b>		<b>12</b>
<b>Bibliography .....</b>		<b>15</b>