

# ISO 9042:2024-04 (E)

## Steels - Point counting method for statistically estimating the volume fraction of a constituent with a point grid

---

<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 and abbreviated terms</b> .....	<b>1</b>
<b>5</b>	<b>Principle</b> .....	<b>2</b>
<b>6</b>	<b>Apparatus</b> .....	<b>2</b>
	6.1 Grid.....	2
	6.2 Means of observation.....	3
<b>7</b>	<b>Sample</b> .....	<b>3</b>
	7.1 Sampling and number of samples.....	3
	7.2 Preparation of samples.....	3
<b>8</b>	<b>Procedure</b> .....	<b>4</b>
	8.1 Selection of the grid.....	4
	8.2 Magnification selection.....	4
	8.3 Selection of the number of observed fields.....	4
	8.4 Array of the fields.....	5
	8.5 Examination and estimation of the fields.....	5
	8.6 Calculation of the volume fraction $V_v$ .....	6
<b>9</b>	<b>Test report</b> .....	<b>7</b>
<b>Bibliography</b> .....		<b>8</b>