

# ISO 24237:2005-06 (E)

## Surface chemical analysis - X-ray photoelectron spectroscopy - Repeatability and constancy of intensity scale

---

<b>Contents</b>		<b>Page</b>
Foreword .....		iv
Introduction .....		v
1	<b>Scope .....</b>	<b>1</b>
2	<b>Symbols and abbreviations .....</b>	<b>1</b>
3	<b>Outline of method .....</b>	<b>2</b>
4	<b>Method for evaluating the repeatability and constancy of the intensity scale .....</b>	<b>2</b>
4.1	<b>Obtaining the reference sample .....</b>	<b>2</b>
4.2	<b>Mounting the sample .....</b>	<b>3</b>
4.3	<b>Cleaning the sample .....</b>	<b>3</b>
4.4	<b>Choosing the spectrometer settings for which intensity stability is to be determined .....</b>	<b>4</b>
4.5	<b>Operating the instrument .....</b>	<b>5</b>
4.6	<b>Options for initial or subsequent evaluation measurements .....</b>	<b>5</b>
4.7	<b>Measurements for the intensity and repeatability .....</b>	<b>5</b>
4.8	<b>Calculating the peak area intensities, intensity ratios and uncertainties .....</b>	<b>6</b>
4.9	<b>Procedure for the regular evaluation of the constancy of the intensity scale .....</b>	<b>7</b>
4.10	<b>Next evaluation .....</b>	<b>7</b>
<b>Annex A (informative) Example of calculations and measurements of the intensity repeatability for a commercial X-ray photoelectron spectrometer using unmonochromated Mg K X-rays .....</b>		<b>9</b>
<b>Bibliography .....</b>		<b>12</b>