

ISO 24237:2005-06 (E)

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

Contents		Page
Foreword		iv
Introduction		v
1	Scope	1
2	Symbols and abbreviations	1
3	Outline of method	2
4	Method for evaluating the repeatability and constancy of the intensity scale	2
4.1	Obtaining the reference sample	2
4.2	Mounting the sample	3
4.3	Cleaning the sample	3
4.4	Choosing the spectrometer settings for which intensity stability is to be determined	4
4.5	Operating the instrument	5
4.6	Options for initial or subsequent evaluation measurements	5
4.7	Measurements for the intensity and repeatability	5
4.8	Calculating the peak area intensities, intensity ratios and uncertainties	6
4.9	Procedure for the regular evaluation of the constancy of the intensity scale	7
4.10	Next evaluation	7
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		9
Bibliography		12