

ISO 15470:2017-03 (E)

Surface chemical analysis - X-ray photoelectron spectroscopy - Description of selected instrumental performance parameters

| Contents | | Page |
|--------------------|--|-------------|
| Foreword | | iv |
| Introduction | | v |
| 1 | Scope | 1 |
| 2 | Normative references | 1 |
| 3 | Terms and definitions | 1 |
| 4 | Abbreviated terms | 1 |
| 5 | Description of selected instrumental performance parameters | 1 |
| 5.1 | Method of analysis | 1 |
| 5.2 | Samples | 1 |
| 5.3 | System configuration | 2 |
| 5.4 | X-ray source | 2 |
| 5.4.1 | Anode type | 2 |
| 5.4.2 | Anode power | 2 |
| 5.4.3 | Expected anode lifetime | 2 |
| 5.5 | Spectrometer intensity performance and energy resolution | 2 |
| 5.6 | Spectrometer energy scale | 2 |
| 5.7 | Spectrometer intensity linearity | 3 |
| 5.8 | Spectrometer response function | 3 |
| 5.9 | Imaging and selected area resolution | 3 |
| 5.9.1 | General | 3 |
| 5.9.2 | Method 1 | 3 |
| 5.9.3 | Method 2 | 3 |
| 5.9.4 | Method 3 | 4 |
| 5.10 | Charge neutralization | 4 |
| 5.11 | Angle-resolved XPS | 4 |
| 5.12 | Vacuum environment | 4 |
| Bibliography | | 5 |