

ISO 16795:2024-04 (E)

Nuclear energy - Determination of Gd_2O_3 content in pellets containing uranium oxide by X-ray fluorescence spectrometry

| Contents | | Page |
|---|-------------------------------------|-------------|
| Foreword | | iv |
| 1 | Scope | 1 |
| 2 | Normative references | 1 |
| 3 | Terms and definitions | 1 |
| 4 | Principle | 1 |
| 5 | Apparatus | 1 |
| 6 | Reagents | 2 |
| 7 | Preparation of standards | 2 |
| 8 | Polishing | 3 |
| 9 | Equipment calibration | 3 |
| 9.1 | Angle calibration | 3 |
| 9.2 | Pulse-height distribution | 3 |
| 9.3 | Background correction | 3 |
| 9.4 | Stability (sensitivity) check | 3 |
| 10 | Calibration curve | 4 |
| 11 | Measurements | 4 |
| 12 | Precision and accuracy | 4 |
| 13 | Test report | 4 |
| Annex A (informative) Angle calibration and background correction | | 6 |
| Annex B (informative) Precision and accuracy | | 7 |
| Bibliography | | 8 |