

# DIN EN ISO 16793:2021-04 (E)

Nuclear fuel technology - Guidelines for ceramographic preparation of UO<sub>2</sub> sintered pellets for microstructure examination (ISO 16793:2018); English version EN ISO 16793:2021

---

<b>Contents</b>		<b>Page</b>
Foreword .....		iv
<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>Principle</b> .....	<b>1</b>
<b>5</b>	<b>Procedures</b> .....	<b>2</b>
	5.1 General .....	2
	5.2 Sample preparation without mounting .....	2
	5.3 Sample preparation with mounting, not needing subsequent dismounting .....	2
	5.4 Sample preparation with mounting, needing subsequent dismounting .....	2
<b>6</b>	<b>Apparatus</b> .....	<b>2</b>
<b>7</b>	<b>Reagents and consumables</b> .....	<b>3</b>
<b>8</b>	<b>Methods</b> .....	<b>4</b>
	8.1 Sectioning .....	4
	8.2 Mounting .....	4
	8.3 Grinding .....	4
	8.4 Polishing .....	5
	8.5 Dismounting .....	5
<b>9</b>	<b>Etching</b> .....	<b>5</b>
	9.1 Introduction .....	5
	9.2 Chemical etching .....	5
	9.3 Thermal etching .....	5
<b>Bibliography</b> .....		<b>8</b>