

# ISO 17828:2025-03 (E)

## Solid biofuels - Determination of bulk density

---

<b>Contents</b>		<b>Page</b>
Foreword		iv
Introduction		v
<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>Apparatus</b>	<b>2</b>
5.1	Measuring containers	2
5.1.1	Standardized containers	2
5.1.2	Large standardized measuring container	2
5.1.3	Small standardized measuring container	2
5.1.4	Measuring container for coarse biofuels	3
5.2	Balances	3
5.2.1	Balance 1	3
5.2.2	Balance 2	3
5.2.3	Balance 3	3
5.3	Scantlings	3
5.4	Wooden board and impact surface	4
5.5	Apparatus for controlled shock exposure (optional)	4
5.6	Spill prevention aid (optional)	4
<b>6</b>	<b>Sample preparation</b>	<b>4</b>
<b>7</b>	<b>Procedure</b>	<b>4</b>
7.1	Determination of the container volume	4
7.2	Container selection	5
7.3	Measurement procedure	5
7.3.1	Procedure for standardized containers according to <a href="#">5.1.2</a> and <a href="#">5.1.3</a>	5
7.3.2	Procedure for non-standardized containers according to <a href="#">5.1.4</a>	5
<b>8</b>	<b>Calculation</b>	<b>6</b>
8.1	Calculation of bulk density as received	6
8.2	Calculation of bulk density on dry basis (optional)	6
<b>9</b>	<b>Performance characteristics</b>	<b>7</b>
9.1	General	7
9.2	Repeatability	7
9.3	Reproducibility	7
<b>10</b>	<b>Test report</b>	<b>7</b>
<b>Annex A (informative)</b>	<b>Measuring differences of sample treatment with and without shock exposure</b>	<b>8</b>
<b>Annex B (informative)</b>	<b>Example of an apparatus for controlled shock exposure</b>	<b>9</b>
<b>Bibliography</b>		<b>10</b>