

# DIN EN ISO 6330:2022-03 (E)

## Textiles - Domestic washing and drying procedures for textile testing (ISO 6330:2021)

---

<b>Contents</b>		<b>Page</b>
European foreword .....		4
Foreword .....		5
Introduction .....		6
<b>1</b>	<b>Scope .....</b>	<b>7</b>
<b>2</b>	<b>Normative references .....</b>	<b>7</b>
<b>3</b>	<b>Terms and definitions .....</b>	<b>7</b>
<b>4</b>	<b>Principle .....</b>	<b>8</b>
<b>5</b>	<b>Apparatus and materials .....</b>	<b>9</b>
5.1	Automatic washing machines .....	9
5.1.1	Reference washing machine Type A -- Horizontal axis, front-loading type .....	9
5.1.2	Reference washing machine Type B -- Vertical axis, top-loading agitator type .....	9
5.1.3	Reference washing machine Type C -- Vertical Axis, top-loading pulsator type .....	9
5.2	Tumble dryers .....	9
5.2.1	Type A1 tumble dryer -- Vented .....	9
5.2.2	Type A2 tumble dryer -- Condenser .....	9
5.2.3	Type A3 tumble dryer -- Large vented .....	9
5.3	Electrically (dry) heated flat-bed press .....	9
5.4	Line drying .....	9
5.5	Drying racks .....	9
5.6	Ballasts .....	9
5.6.1	Type I, 100 % cotton ballast .....	9
5.6.2	Type II, 50 % cotton/50 % polyester ballast .....	9
5.6.3	Type III, 100 % polyester ballast .....	9
5.6.4	Other ballast .....	10
<b>6</b>	<b>Reagents .....</b>	<b>10</b>
6.1	Reference detergents .....	10
6.1.1	Reference detergent 1 .....	10
6.1.2	Reference detergent 2 .....	10
6.1.3	Reference detergent 3 .....	10
6.1.4	Reference detergent 4 .....	10
6.1.5	Reference detergent 5 .....	10
6.1.6	Reference detergent 6 .....	11
6.1.7	Reference detergent 7 .....	11
6.2	Water .....	11
6.2.1	Water hardness .....	11
6.2.2	Water pressure .....	11
6.2.3	Cold-water inlet temperature .....	11
<b>7</b>	<b>Conditioning and testing atmosphere .....</b>	<b>11</b>
<b>8</b>	<b>Wash load .....</b>	<b>11</b>
8.1	Total wash load .....	11
8.2	Number of specimens .....	11

8.3	Selection of ballast .....	12
8.4	Ratio of load to ballast .....	12
9	Washing procedure .....	12
10	Drying procedure .....	13
10.1	General .....	13
10.2	Open-air dry .....	13
10.2.1	General .....	13
10.2.2	Procedure A -- Line dry .....	13
10.2.3	Procedure B -- Line drip dry .....	13
10.2.4	Procedure C -- Flat dry .....	13
10.2.5	Procedure D -- Flat drip dry .....	14
10.3	Procedure E -- Flat press .....	14
10.4	Procedure F -- Tumble dry .....	14
10.4.1	General .....	14
10.4.2	Endpoint moisture content by setting time .....	14
10.4.3	Endpoint overdry state by setting time .....	14
10.4.4	Endpoint moisture content by automatic tumble dryer sensing .....	15
11	Domestic washing and drying procedure report .....	15
Annex A	(normative) Specification for reference washing machine Type A -- Horizontal axis, front-loading type .....	16
Annex B	(normative) Specification for wash procedures for reference washing machine Type A .....	19
Annex C	(normative) Specification for machines and procedures for reference washing machine Type B -- Vertical axis, top-loading agitator type .....	24
Annex D	(normative) Specification for reference washing machine Type C -- Vertical axis, top-loading pulsator type .....	25
Annex E	(normative) Specification for washing procedures for reference washing machine Type C .....	26
Annex F	(normative) Specification for tumble dryers .....	27
Annex G	(normative) Specifications for all ballast types used in washing .....	28
Annex H	(normative) Nominal percentage composition for non-phosphate powder reference detergent 1 .....	30
Annex I	(normative) Nominal percentage composition for non-phosphate reference detergent 2 .....	32
Annex J	(normative) Nominal percentage composition for non-phosphate reference detergent 3 .....	33
Annex K	(normative) Nominal percentage composition for reference detergent 4 .....	34
Annex L	(normative) Nominal percentage composition for reference detergent 6 .....	35
Annex M	(normative) Nominal percentage composition for reference detergent 7 .....	36
Annex N	(normative) Distribution and mixing of reference detergent 2, 3, or 6 .....	37
Annex O	(normative) Determination of cycled drying time for tumble dryers with a timer device .....	39
Bibliography	.....	42