

DIN EN ISO 6330:2022-03 (E)

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

Contents		Page
European foreword		4
Foreword		5
Introduction		6
1	Scope	7
2	Normative references	7
3	Terms and definitions	7
4	Principle	8
5	Apparatus and materials	9
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
6	Reagents	10
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
7	Conditioning and testing atmosphere	11
8	Wash load	11
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