

ISO 6330 : 2012

Textiles – Domestic washing and drying procedures for textile testing
Edition 3

What Does It Mean ?

Introduction

Most people in the textile testing sector are familiar with this standard which is used extensively as part of dimensional stability and appearance testing routines.

The standard defines apparatus, test materials and specifies standardized washing and drying procedures for textile testing.

James Heal supply apparatus and test materials for use in these procedures. We supply the Wascator FOM 71 CLS, the standardized tumble dryer Accudry and a wide range of Test Materials such as Reference Detergents and Make Weights (Ballast).

This document outlines the implications that the new standard will have on equipment and Test Materials (consumable items).

The third edition of ISO 6330 was published in April 2012.

Chronology of ISO 6330

| | | |
|----------------|--|--|
| First edition | ISO 6330:1984 EN 26330:1994 | |
| Second edition | ISO 6330:2000 EN ISO 6330:2000 BS EN ISO 6330:2001 | (+A1:2008) (+A1:2009) (+A1:2009) |
| Third edition | ISO 6330:2012 EN ISO 6330:2012 | |

Which Wascators can be used with Edition 3 ?

ISO 6330:2012 describes two (2) "Type A" automatic washing machines:

Type A1 – specification for the new replacement machine, i.e., the Wascator FOM 71 CLS.

Type A2 – manufactured pre 2002

According to Electrolux,

The MP and S versions are too old for the new standard and require changes in on/off action that cannot be performed in MP or S versions.

Also, the MP went out of production 1993, 19 years ago and we do not have full support of spare parts or software changes to that model.

So, Type A1 is the Wascator FOM 71 CLS, and,

Type A2 is the Wascator FOM 71 MP/Lab

Wascator Certificates of Calibration

James Heal Certificates of Calibration will be modified according to the Wascator FOM 71 model and the applicable standards:

Wascator FOM 71 S

Wascator FOM 71 MP

ISO 6330:1984
ISO 6330:2000
ISO 6330:2000+A1:2008

EN 26330:1994
EN ISO 6330:2001
EN ISO 6330:2000+A1:2009

Wascator FOM 71 MP/Lab

Wascator FOM 71 CLS

ISO 6330:1984
ISO 6330:2000
ISO 6330:2000+A1:2008
ISO 6330:2012

EN 26330:1994
EN ISO 6330:2001
EN ISO 6330:2000+A1:2009
EN ISO 6330:2012

New Washing Programmes

Locked Memory Cards are now available for the Wascator FOM 71 CLS.

Programmes for the Wascator FOM 71 MP/Lab will be available by the end of August 2012.

745-075 EN ISO Programme
 EN ISO 6330 : 2012
 Supplied on two (2) locked Memory Cards (level control and weight control)

745-077 EN ISO 6330:2012
 Textiles - Domestic washing and drying procedures for textile testing
 Supplied on non-returnable programming cassette

745-078 EN ISO 6330:2012
 Textiles - Domestic washing and drying procedures for textile testing
 Supplied on loan (returnable) programming cassette

There are thirteen (13) washing programmes for the Type A automatic washing machine and the numbering system has changed.

The complete list is:

9N, 7N, 6N, 6M, 5N, 5M, 4N, 4M, 4G, 3N, 3M, 3G and 4H.

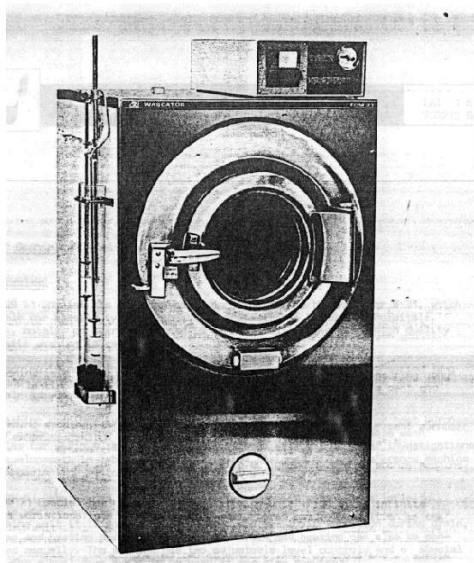
The number indicates the washing temperature:

92, 70, 60, 50, 40, 30°C

The letter, N, M or G, indicates the degree of agitation:

| | | |
|---|---------------|----------------|
| N | Normal action | 12s on, 3s off |
| M | Mild action | 8s on, 7s off |
| G | Gentle action | 3s on, 12s off |

Wascator FOM 71 Model History



**Wascator FOM 71 S
(1969-1989)**



**Wascator FOM 71 MP
(1984-1993)**



**Wascator FOM 71 MP/Lab
(1990-2002)**



**Wascator FOM 71 CLS
(2002-)**

Accudry²

Accudry² is a standardized tumble dryer manufactured by James Heal using a vented/timer system which complies with the Type A1 requirements of ISO 6330:2012.

Accudry² does not have a humidity sensor, drying is based on a timer system.

There are now two (2) controlled exhaust temperatures:

Maximum 80°C corresponding to the normal/high temperature setting
Maximum 60°C corresponding to the “low” temperature setting.

Edition 3 also has options for Condenser and Large Vented tumble dryers.

Make Weights (Ballast)

In Edition 2 we had three (3) types of Ballast and this is unchanged in Edition 3, however, the numbering has changed. The following table summarises the changes in the Ballast numbering system:

| Ballast | Edition 2 | Edition 3 |
|----------------------------|------------------|------------------|
| 100% cotton | Type I (1) | Type I (1) |
| 50% polyester / 50% cotton | Type III (3) | Type II (2) |
| 100% polyester | Not numbered | Type III (3) |

The Type III (3) polyester ballast is currently available from James Heal, while Type I (1) and Type II (2) ballast will be available soon.

Reference Detergents

In Edition 2 we had four (4) Reference Detergents, in Edition 3 we have six (6) although there are effectively eight (8) formulations.

The following table summarises the changes in the Reference Detergent numbering system:

| Detergent | Edition 2 | Edition 3 |
|----------------|------------------|-----------|
| AATCC 1993 WOB | No. 1 | No. 1 |
| AATCC 1993 | <not applicable> | No. 1 |
| ECE (A) | No. 2 | No. 3 |
| IEC (A) | No. 3 | No. 6 |
| IEC (A*) | No. 4 | No. 2 |
| JIS Class 1 | <not applicable> | No. 4 |
| AATCC 2003 WOB | <not applicable> | No. 5 |
| AATCC 2003 | <not applicable> | No. 5 |

(WOB = without optical brightener)

The detergent compositions (formulations) have remained the same from Edition 2 to Edition 3.

With the exception of the JIS Class 1 detergent, all Reference Detergents are available from James Heal.

Comments

James Heal are members of TCI/82, the BSI Technical Committee responsible for drafting the new standard and as such we are fully aware of the changes from Edition 2 to Edition 3.

You can be assured that any product currently offered by James Heal as compliant with ISO 6330 Edition 2 will continue to be compliant with Edition 3.