



Transport
Roads & Maritime
Services

Test method T1523

Weave stability of seamless knitted tubular filter fabric

NOVEMBER 2012



Revision Summary

Ed/Rev Number	Clause Number	Description of Revision	Authorisation	Date
		Reformatted and Revision Summary Added	D.Dash	June 2001
Ed 2/ Rev 0	All	Reformatted RMS template	J Friedrich	November 2012

Note that Roads and Maritime Services is hereafter referred to as 'RMS'.

The most recent revision to Test method T1523 (other than minor editorial changes) are indicated by a vertical line in the margin as shown here.

Test method T1523

Weave stability of seamless knitted tubular filter fabric

1. Scope

This test method sets out the procedure for determining the weave stability of seamless tubular filter fabric which has been pre-treated in ultra-violet light and a solution of calcium hydroxide.

2. Apparatus

- (a) A 5 mm wide wood chisel
- (b) A hammer
- (c) A block of wood suitable for placing inside the tubular filter fabric
- (d) Masking tape
- (e) A 200 ± 10 mm length of corrugated plastic subsoil pipe
- (f) A 5 kg weight

3. Pre-treatment

A 400 mm sample length of filter fabric is to be pre-treated as follows:-

- (i) The sample shall be exposed to ultra-violet light as described generally in Test Method T1404 for two days.
- (ii) The sample shall then be soaked in a solution of calcium hydroxide of pH 12 for three days and then air dried.

4. Procedure

- (a) Spread the air dried sample out on a flat surface and mark with a marking pen two 15 mm squares spaced about 40 mm apart on the same cross-section.
- (b) Place masking tape over each square so that the edge of the tape is at least 15 mm beyond the marked square.
- (c) Insert the wooden block into the filter fabric until it is directly under one of the squares.
- (d) Place the wood chisel in the centre of one of the squares with the blade parallel to the length of the filter fabric and hit the chisel with one sharp blow of the hammer.
- (e) Position the wooden block under the second square and repeat procedure (d) but positioning the blade of the chisel at right angles to the length of the filter fabric.
- (f) Fit the filter fabric over the plastic subsoil pipe and tie both ends with string. Adjust the position of the plastic subsoil pipe so that it is central.
- (g) Suspend the sample the one end from a beam so that it is hanging freely.
- (h) Carefully remove the masking tape being sure not to pull any fibres.
- (i) Attach the 5 kg weight to the bottom of the sample allowing the load to be transferred slowly.
- (j) Inspect the sample for unravelling, deweaving, tearing or laddering that has occurred.

5. Reporting

For each square report whether any unravelling, deweaving, tearing or laddering has occurred from the slit and extending beyond the square.