



A.S.
nonwovens

SLOSHBOX TEST REPORT

Sloshbox Test Results for 60 GSM FAC Product

Test Date: 22.10.2025
Prepared by Abdullah
ISKENDER

A.S. NONWOVENS

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1. AIM

The purpose of this study is to observe the compliance of 60 gsm FAC product according to the EDANA GD.4 Standard

2. MATERIALS AND METHODS

2.1 Fabric Properties

60 gsm FAC fabric was selected from the productions we made in June.
Sample was cut to be 12*18 cm.

2.2 Wet wipe preparation and storage.

Fabric samples were wetted 3.5 times their own weight with the water.

Dispersibility measurement—slosh box disintegration test.

The test consists of five agitation replicates (one agitation step equals a single specimen per box – if a triplex slosh box is being used it is considered three agitation replicates at one specimen per box). After each agitation, observations are made and quantitative analysis undertaken to determine whether the specimen has met the test requirement for disintegration. Test specimens are placed in the slosh box containing 2L of water, which will be oscillated at the designated speed (26rpm) for the designated duration. The slosh box contents are transferred via pitcher onto a 12,5 mm perforated sieve and the upper surface of the sieve is rinsed at the designated flow and duration. The top and underside surfaces of the sieve are examined visually for snagged residuals. Quantitative analysis of the retained residuals from the three (3) test specimens is performed to see if the sample will pass the slosh-box disintegration test. [1]

2.3 Calculation

The percentage of mass that disintegrated (operationally defined by the ability to pass through the 12,5 mm sieve) is calculated using the following equation: [3]


$$\% \text{ Disintegration} = \left[1 - \frac{\text{total dry mass of solids retained on the sieve (g)}}{\text{total initial dry mass of sample (g)}} \right] \times 100$$

Acceptance Criteria is %60 for EDANA GD.4 Standard.

3. RESULTS AND DISCUSSION

3.1 TEST RESULTS

TABLE 2: Slosbox Test Results

			Measured Values/ Ölçüm değerleri	Measured Values/ Ölçüm değerleri
Product Type			FAC-BIOFLUSH	FLUSHABLE
	Unit/ Birim	Test Method/ Test metot	Ort/ Ortalama	Ort/ Ortalama
Basis Weight/ Birim ağırlık	gr/m2	WSP 130.1	60	-
Slosbox Test(60 min/2 L Water)	%	EDANA GD.4	98,10	60,00

The sample was tested and the flushability feature of the fabric was observed. As shared in the table above, according to the EDANA GD.4 Standard, the flushability value of sample complies with the acceptance criteria according to the Standard which is %60.