

# STUDY TAMPONS WITH APPLICATOR REGULAR



## 1. FOREWORD

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The aim of this study is to compare, on the basis of chemical and physical analysis and ability tests at use, quality level and the performances of 2 tampons with applicator regular.

### TESTED PRODUCTS:



#### **SAMPLE ONTEX (ALDI PRODUCT)**

TAMPONS MET APPLICATOR REGULAR REF:  
325-2018-00003474  
Reference: ART.N°2771  
Supplier name: SUPPLIER N°506064  
Batch N°: 312445493  
Barcode N°: ABSENT  
Provided by: EUROFINS FOOD TESTING BELGIUM



#### **TAMPAX (BENCHMARK)**

TAMPONS MET APPLICATOR REGULAR REF:  
325-2018-00003476  
Reference: ART.N°2771  
Supplier name: SUPPLIER N°/ P&G  
Batch N°: 7138208000 S2 19/05/17 07:30  
Barcode N°: 4015400715320  
Provided by: EUROFINS FOOD TESTING BELGIUM

The study is based on:

- Weight characteristics(tampon) - Gravimetry - (CH205)  
*SOP Reference: P04.1.MOP.00280.04*
- Dimensional characteristics (tampon) - Dimensional measurement - (CH206)  
*SOP Reference: P04.1.MOP.00281.03*
- Structure of the product (tampon) - Visual examination - (CH135)  
*SOP Reference: P04.1.MOP.00100.03*
- Syngina Simulation test (under pressure) - Automatic test bench - FDA \_ CFR Title21 part 801 (04/2017) - (CH129)  
*SOP Reference: P04.1.MOP.00097.05*
- Fiber loss of the tampon - Gravimetry - (CH141)  
*SOP Reference: P04.1.MOP.00108.02*
- Resistance of the cord to the pulling out (humid) - Mechanical - (CH621)  
*SOP Reference: P04.1.MOP.01038.05*
- Expulsion force of the sanitary pad - (1T4AP)  
*SOP Reference: P04.1.MOP.07979.02*

## 2. SYNTHESIS/CONCLUSION

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According to the study carried out on regular size tampons, the products can be ranked as follows:

Product / Brand	Description	Quality Balance Score/5	Quality level	Strength(s)	Weakness(es)
SAMPLE ONTEX (ALDI PRODUCT)	TAMPONS MET APPLICATOR REGULAR REF: 325-2018-00003474	4.6	Very satisfactory	All the tested parameters except the expansion of the diameter	Its high expansion of the diameter
TAMPAX (BENCHMARK)	TAMPONS MET APPLICATOR REGULAR REF: 325-2018-00003476	4.4	Very satisfactory	Its dimensions before and after Syngina test Its fibres loss Its absorption	Its low pull out resistance of the cord

**CONCLUSION:** **CODE 1** for SAMPLE ONTEX: some parameters do not comply with the specification.

### 3. COMMENTS

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According to this study, the following points are highlighted:

**SAMPLE (ONTEX) (ALDI PRODUCT):**

The product **SAMPLE (ONTEX)** presents a very satisfactory quality balance towards consumers' technical targets.

Regarding its technical data sheet, the product **SAMPLE (ONTEX)** is **not in-compliance**. Code 1 : we will note a minor non conformity of the diameter of the tampon toward the specification.

■ **IMPROVEMENT PROPOSAL PRODUCT SAMPLE (ONTEX):**

- *Its high expansion of the diameter.*

**TAMPAX (BENCHMARK):**

The product **TAMPAX (BENCHMARK)** presents a very satisfactory quality balance towards consumers' technical targets.

■ **IMPROVEMENT PROPOSAL PRODUCT TAMPAX (BENCHMARK):**

- *Its low pull out resistance of the cord.*

*Remark:*

- *We will note a shorter length of the cord for this product than for the SAMPLE (ONTEX).*

According to the study, the tested products present the following global quality balance:

- **Very satisfactory** global performances balance for:

**SAMPLE (ONTEX)  
TAMPAX (BENCHMARK)**

### Conclusion:

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**ONTEX Regular (ALDI product) presents a very satisfactory performance level and is comparable to Tampax (benchmark).**

## 4. QUALITY BALANCE

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# QUALITY BALANCE TAMPON WITH APPLICATOR REGULAR

Scale of notation	APPRECIATION	Scale of notation
	<div> <div>Very unsatisfactory</div> <div>Unsatisfactory</div> <div>Correct</div> <div>Satisfactory</div> <div>Very satisfactory</div> </div>	<div> <div>From 1,0 to 2,0</div> <div>From 2,1 to 3,0</div> <div>From 3,1 to 3,7</div> <div>From 3,8 to 4,2</div> <div>≥ 4,3</div> </div>

PARAMETERS OF THE STUDY	ASPECT / COMFORT	PRACTICALITY	PERFORMANCES	QUALITY BALANCE
CONSUMER'S EXPECTATIONS	29%	16%	55%	
SAMPLE (ONTEX) (ALDI PRODUCT)	4,8	5,0	4,5	4,6
TAMPAX (BENCHMARK)	4,3	4,3	4,5	4,4

## 5. RESULTS

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## SYNTHESIS TAMPONS WITH APPLICATOR REGULAR

	654347	645335
<b>Brand</b>	<b>SAMPLE</b>	<b>TAMPAX</b>
<b>Manufacturer</b>	<b>ONTEX (ALDI PRODUCT)</b>	<b>(BENCHMARK)</b>
<b>Denomination</b>	<b>ONTEX</b>	<b>PROCTER &amp; GAMBLE</b>
<b>Batch n°</b>	<b>TAMPON WITH APPLICATOR</b>	<b>TAMPON WITH APPLICATOR</b>
	<b>REGULAR</b>	<b>REGULAR X 22</b>
	<b>REF: 325-2018-00003474</b>	<b>REF: 325-2018-00003476</b>
	<b>312445493</b>	<b>7138208000 S2 19/05/17 07:30</b>
<b>Weight characteristics(tampon) - Gravimetry</b>		
Number of products per sale unit	20	22
Total weight (with applicator) g	4,9	4,2
Weight of the applicator g	2,5	2,3
Weight of the tampon (including the cord) g	2,4	2,0
<b>Dimensional characteristics (tampon) - Dimensional measurement</b>		
Total length (with applicator) mm	110,7	111,5
Length of the tampon mm	43,6	42,0
Useful length of the cord mm	110,5	101,0
Average diameter of the tampon mm	11,2	10,3
Useful length of the flange mm	--	11,1
<b>Structure of the product (tampon) - Visual examination</b>		
Type of folding	Rectangular sewn	Rectangular sewn
Presence of rounded ends	Presence	Presence
Number of petal	4	4
Number of flutings	0	0
Applicator nature	Plastic	Plastic
Cutting direction	Transversal	Longitudinal
<b>Syngina Simulation test (under pressure) -</b>		
<b>Automatic test bench - FDA _ CFR Title21 part 801 (04/2017)</b>		
Absorbency g	8,7	6,5
Absorption coefficient	3,6	3,3
Average final diameter mm	25,8	19,5
Expansion (diameter) %	132	89
Average final length mm	60,7	63,6
Expansion (length) %	39	51
Shape at the end of the test	Accordion	Accordion
<b>Fiber loss of the tampon - Gravimetry</b>		
Fibre loss mg	<1	<1
<b>Resistance of the cord to the pulling out (humid) - Mechanical</b>		
Pull out resistance of the cord daN	10,6	4,5
<b>Expulsion force of the sanitary pad</b>		
Average Stroke	2,32	1,76
Maximum priming force	3,88	1,86
Maximum expulsion force	7,54	10,82