

Sponsor:
Vincent Zheng
Wuhan Zonsen Medical Products Co. Ltd.,
Chengbei Industrial Zone, Zhucheng St., Xinzhou District
Wuhan, Hubei Province, 431400
CHINA

## General Tensile Testing Final Report

Test Article:

ZSTS001

Purchase Order:

ZSTS001

Study Number:

999127-S01

Study Received Date:

27 Oct 2017

Testing Facility:

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Nelson Laboratories, LLC, a Business Unit of Sterigenics International

6280 S. Redwood Rd.

Salt Lake City, UT 84123 U.S.A.

Test Procedure(s):

Standard Test Protocol (STP) Number: STP0066 Rev 09

Deviation(s):

None

**Summary:** This procedure is designed to determine the tensile strength. Testing was performed in compliance with US FDA good manufacturing practice (GMP) regulations 21 CFR Parts 210, 211 and 820.

Appendix A Number of Pages: 2

Results: The results are summarized in Appendix A.

Test Method Acceptance Criteria: No test method acceptance criteria currently exist for this test.

**Procedure:** Prior to testing, the test articles were conditioned for a minimum of 8 hours at  $21 \pm 2^{\circ}$ C and  $65 \pm 5\%$  relative humidity.

The fabric to be tested was cut into specimens approximately 50 mm wide and 150 mm long. When possible, specimens were cut in both the machine direction and the cross direction of the fabric examined. These specimens were tested on an Instron® physical testing instrument. The crosshead speed of the instrument was set to 100.0 mm per minute, and the distance between the grips was set to 100 mm. Each fabric specimen was placed into the pneumatic grips of the Instron® and centered. The tensile test was initiated and repeated for all specimens.





Study Director

Jennifer Gygi, B.S., SM/RM(NRCM)

Study Completion Date





## Appendix A



Sponsor	Wuhan Zonsen Medical Products Co., Ltd.	
Lab number	999127	
User	Simon Day	
Test Article	ZSTS001	
Testing temperature	24 °C	
Testing humidity	45 %RH	
Crosshead speed	100.0 mm/min	
Grip distance	100 mm	
Size	50 x 150 mm - hand cut	
Jaw faces	1 x 3 inch rubber coated	
Fabric type	Nonwoven	
Fabric direction	Ear to Ear	
Testing condition	Conditioned (dry)	
Equipment	Instron 3343 with Bluehill 3 software	
Instron Equipment ID	3166	

Instron file designation: 999127.is\_tens ISO 9073 - Tensile of fabrics

## Results

	Breaking Strength [N]	Elongation (%)
1	104.2	69.8
2	105.5	74.8
3	99.7	62.8
4	101.0	70.5
5	104.3	66.7
Mean	102.9	68.9
Standard deviation	2.47	4.48

Notes NA



Sponsor	Wuhan Zonsen Medical Products Co., Ltd.	
Lab number	999127	
User	Simon Day	
Test Article	ZSTS001	
Testing temperature	24 °C	
Testing humidity	48 %RH	
Crosshead speed	100.0 mm/min	
Grip distance	100 mm	
Size	50 x 150 mm - hand cut	
Jaw faces	1 x 3 inch rubber coated	
Fabric type	Nonwoven	
Fabric direction	Nose to Chin	
Testing condition	Conditioned (dry)	
Equipment	Instron 3343 with Bluehill 3 software	
Instron Equipment ID	3166	

Instron file designation: 999127\_1.is\_tens ISO 9073 - Tensile of fabrics

## Results

	Breaking Strength [N]	Elongation (%)
1	69.4	71.3
2	58.9	52.5
3	65.3	69.2
4	64.8	62.3
5	60.0	51.7
Mean	63.7	61.4
Standard deviation	4.28	9.14

Notes NA