





中国认可 国际互认 检测 TESTING CNAS L0599

Test Report SL52035274032001TX Date:August 14,2020 Page 1 of 11

KUNSHAN JIEHONG NONWOVEN PRODUCT CO., LTD. 895 XINLE ROAD, DIANSHANHU TOWN, KUNSHAN CITY

The following sample(s) was/were submitted and identified on behalf of the client as:

Sample Description : (A)Surgical Gown

Composition : (A)SMS Sample Color : (A)Blue Style No. : XL

Manufacturer : KUNSHAN JIEHONG NONWOVEN PRODUCT CO., LTD.

Sample Receiving Date : Jul 24, 2020

Testing Period : Jul 24, 2020 - Aug 14, 2020

Test Result(s) : Unless otherwise stated the results shown in this test report refer only to the

sample(s) tested, for further details, please refer to the following page(s).

Test Performed : Selected test(s) as requested by applicant



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### Comment:

Surgical Clothing and Drapes - Requirements and Test Methods - Part	(A)
1: Surgical Drapes and Gowns (EN 13795-1:2019)	, ,
Clause 4 Bursting strength-Dry	M
Clause 4 Bursting strength-Wet	M
Clause 4 Tensile strength-Dry	M
Clause 4 Tensile strength-Wet	M
Clause 4 Liquid penetration-Water Resistance	M
Clause 4 Cleanliness microbial/Bioburden	M
Clause 4 Microbial Penetration-Dry	M
Clause 4 Microbial penetration-Wet	M
Clause 4 Particle release	M

Remark: M=Meet EN 13795-1:2019 standard performance requirement

Signed for and on behalf of SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd Testing Center

Sara Guo (Account Executive)

Dongjing Liu (Authorized Signatory)





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### **Test Result**

Surgical Clothing and Drapes - Requirements and Test Methods - Part 1: Surgical Drapes and Gowns (EN 13795-1:2019)

# Clause 4 Bursting strength-Dry\*

(EN ISO 13938-1: 1999; Dry state; Test area: 10cm<sup>2</sup>)

# Material

Sample	Measured value (kPa)	Requirement (kPa)	Conclusion
	Face		
1	146	≥40	
2	148	(Surgical gown: standard	Pass
3	153	performance critical product area)	1 433
4	160		
5	147	EN 13795-1:2019	

#### Sleeve seam

Sample	Measured value (kPa) Face	Requirement (kPa)	Conclusion
1	134	≥40	
2	138	(Surgical gown: standard	Pass
3	136	performance critical product area)	
4	144		
5	140	EN 13795-1:2019	



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# Clause 4 Bursting strength-Wet\*

(EN ISO 13938-1: 1999; Dry state; Test area: 10cm<sup>2</sup>)

### Material

Sample	Measured value (kPa)	Requirement (kPa)	Conclusion
	Face		
1	134	≥40	
2	146	(Surgical gown: standard performance	Pass
3	138	critical product area)	. 400
4	140		
5	140	EN 13795-1:2019	

# Sleeve seam

Sample	Measured value (kPa) Face	Requirement (kPa)	Conclusion
1	146	≥40	
2	152	(Surgical gown: standard	Pass
3	146	performance critical product area)	
4	154		
5	141	EN 13795-1:2019	



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# **Clause 4 Tensile strength-Dry**

(EN 29073-3:1992; Dry state; The distance between the clamps: 200mm; Rate: 100mm/min) (EN 29073-3:1992 eqv ISO 9073-3:1989)

# Material

Commis	Length	Width	Requirement	Camaluaian
Sample	(N)	(N)	(N)	Conclusion
1	43.1	77.5	≥20	
2	44.5	83.5	(Curainal gayya atandard	
3	44.8	82.0	(Surgical gown: standard performance critical product	
4	42.3	84.8	·	Door
	45.6	84.0	- area)	Pass
5			EN 13795-	
			1:2019	

#### Sleeve seam

Sample	(N)	Requirement (N)	Conclusion
1	38.6	≥20	
2	34.1	(Consider I service at an dead	
3	37.0	(Surgical gown: standard	
4	42.0	performance critical product	D
	37.4	area)	Pass
5		EN 13795- 1:2019	



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# **Clause 4 Tensile strength-Wet**

(EN 29073-3: 1992; Wet state. The distance between the clamps: 200mm; Rate: 100mm/min)

(EN 29073-3:1992 eqv ISO 9073-3:1989)

### Material

0	Length	Width	Requirement	
Sample	(N)	(N)	(N)	Conclusion
1	45.5	81.8	≥20	
2	48.9	83.4	(Consider account atom don't	
3	46.9	78.7	<ul><li>(Surgical gown: standard performance critical product</li></ul>	
4	46.4	83.2	·	Bass
	44.7	84.5	area)	Pass
5			EN 13795- 1:2019	

#### Sleeve seam

Sample	(N)	Requirement (N)	Conclusion
1	38.1	≥20	
2	42.0	(Consider language et an dend	
3	39.2	(Surgical gown: standard	
4	38.7	performance critical product	Dana
	43.8	area)	Pass
5		EN 13795- 1:2019	



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# Clause 4 Liquid penetration-Water Resistance

(EN ISO 811: 2018; Rate of increase of water pressure:10cm/min; temp. of distilled water:20.0℃; Face side to water)

### Material

Sample	Measured value	Requirement	Conclusion
	(cmH <sub>2</sub> O)	(cmH <sub>2</sub> O)	
1	>20	≥20	
2	>20	(Surgical gown: standard	Pass
3	>20	performance critical product area)	
4	>20	, ,	
5	>20	EN 13795-1:2019	

#### Sleeve seam

Sample	Measured value (cmH <sub>2</sub> O)	Requirement (cmH <sub>2</sub> O)	Conclusion
1	>20	≥20	
2	>20	(Surgical gown: standard	Pass
3	>20	performance critical product area)	
4	>20	portormanos emisar product aroa,	
5	>20	EN 13795-1:2019	

# Clause 4 Cleanliness microbial/Bioburden

(EN ISO 11737-1: 2018; Membrane Filtration Method)

Sample	total plate count (CFU/100cm <sup>2</sup> )	Requirement (CFU/100cm²)	Conclusion
1	180	≤300	
2	210	(Surgical gown: standard	Pass
3	183	performance critical product area)	
4	156	,	
5	168	EN 13795-1:2019	



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# Clause 4 Microbial Penetration-Dry\*

(EN ISO 22612:2005, The fourth generation of spores of bacillus subtilis ATCC 9372, The concentration of the spores: 1.8 × 108 CFU/g talcum powder, Sample: 12, Vibration frequency: 20800 times/min, Vibration time: 30min)

### Material

Sample	Measured value (CFU)	Requirement (CFU)	Conclusion
1	8		
2	8	≤300	
3	4		
4	6	(Surgical gown: standard	Pass
5	8	performance less critical product	Fass
6	4	area)	
7	9	aroa)	
8	9	EN 13795-1:2019	
9	4		
10	7		

#### Sleeve seam

Sample	Measured value (CFU)	Requirement (CFU)	Conclusion
1	3		
2	7	≤300	
3	7		
4	9	(Surgical gown: standard	Pass
5	3	(Surgical gown: standard performance less critical product	Pass
6	2	area)	
7	8	aroa)	
8	8	EN 13795-1:2019	
9	2		
10	4		



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# Clause 4 Microbial penetration-Wet\*

(EN ISO 22610:2006,Temp:24.5°C,RH:56.0% ,The distance of agar to plates brim:3mm, Carrier material:30µm polyurethane (PU))

### Material

Sample	Barrier index	Requirement Barrier index	Conclusion
1	4.3	≥2.8	
2	4.4	(Surgical gown: standard	Pass
3	4.5	performance critical product area)	
4	4.4	performance children product area)	
5	4.4	EN 13795-1:2019	

### Sleeve seam

Sample	Barrier index	Requirement Barrier index	Conclusion
1	4.5	≥2.8	
2	4.5	(Surgical gown: standard	Pass
3	4.5	performance critical product area)	1 433
4	4.4	, ,	
5	4.4	EN 13795-1:2019	



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# Clause 4 Particle release\*

(EN ISO 9073-10: 2004; Size of particles counted: 3um-25um)

(EN ISO 9073-10:2004 idt ISO 9073-10:2003)

### Material

Size of particles counted (µm)	Sample		Measured value Coefficient of linting logs	Requirement Coefficient of linting logu	Conclusion
		1	3.1		
	_	2	2.9	≤4.0	
	A: Face	3	3.2	_4.0	
		4	3.0		
3∼25		5	3.0	(Surgical gown: standard	Pass
3 23		1	3.1	performance critical product area)	
		2	2.9		
	A: Back	3	2.9		
		4	3.0	EN 13795-1:2019	
		5	2.9		

### Sleeve seam

Size of particles counted (µm)	Sample		Measured value Coefficient of linting logs	Requirement Coefficient of linting log <sub>6</sub>	Conclusion
		1	3.1		
		2	2.8	≤4.0	
	A: Face	3	2.9	•	
		4	3.0		
3∼25		5	2.9	(Surgical gown: standard	Pass
3 - 23		1	3.1	performance critical product area)	
		2	2.8		
	A: Back	3	2.9		
		4	3.0	EN 13795-1:2019	
		5	2.8	7	

<sup>\*</sup>This test standard is not within the accredited scope in SGS Shanghai testing centre, it is carried out by external laboratory accredited by CNAS (China National Accreditation Service for Conformity Assessment).



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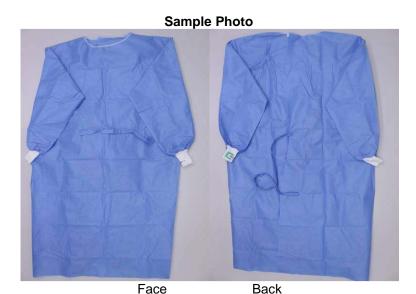
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The statement of conformity in this test report is only based on measured values by the laboratory and does not take their uncertainties into consideration.

\*\*\*End of Report\*\*\*



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