



Revised report.

DATE: 09/10/2018

Report No.: CH:TX:9420047921-1

HEBEI TITANS HONGSEN MEDICAL TECHNOLOGY CO LTD

EASTERN INDUSTRIAL ZONE NANGONG CITY

XINGTAI CITY, HEBEI, CHINA 051800

A/C F619201 SGS-CSTC STANDARDS TECHNICAL SERVICES (TIANJIN) CO., LTD.

CONTACT PERSON:

THE FOLLOWING SAMPLE(S) WAS/WERE SUBMITTED AND IDENTIFIED BY/ON BEHALF OF THE CUSTOMER AS:

SAMPLE DESCRIPTION **GLOVES**

LOW WEIGHT POWDER FREE BLUE NITRILE EXAMINATION GLOVES BLUE

COLOUR COUNTRY OF DESTINATION **COUNTRY OF ORIGIN** PHOTO APPENDIX.

EUROPE CHINA



SAMPLE RECD ON	17/09/2018 TESTING PERIOD : 17/09/2018	- 29/09/2018	
	Summary of Test Results/Conclusion	n	
Test Method / Standard	Clause/Test Name	Status / Performance Level	
	Protective gloves - General requirements		
EN 420:2003+A1.2009	Sizing	Refer enclosed pages.	
EN 420.2003+A1.2009	Dexterity	Performance level 5	
	pH Value	Pass	
	Protective gloves against chemicals and micro-organisms:	Determination of resistance penetration	
EN 374-2:2014	Clause 4.1 – Air leak test	Pass	
	Clause 4.2 – Water leak test	Pass	
	Permeation by Liquid chemical under conditions of cont	inuous contact.	
	Methanol	Level - 0	
	Toluene	Level - 0	
EN 16523-1:2015	Diethylamine	Level - 0	
	n-Heptane	Level - 0	
	Sodium hydroxide 40%	Level - 6	
	Sulphuric acid 96%	Level - 0	
	Resistance to Degradation by Chemicals		
EN 374-4:2013	Methanol	Refer results.	
	Toluene	Refer results.	
	Diethylamine	Refer results.	
	n-Heptane	Refer results.	
	Sodium hydroxide 40%	Refer results.	
	Sulphuric acid 96%	Refer results.	

Per pro SGS India Private Ltd.

Email your Test Report Related Enquiries at

@sgs.com

Test report revised to correct the thickness.

This report cancels and supersedes report no. 9420047921 Dated 29/09/2018 issued by SGS India

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Control No.:9425051387

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EN 420: 2003+A1: 2009 Protective Gloves - General requirements and test methods

Clause	Test Name		Result		Average	Standard sizing
5.1	Sizing Declared size XS Circumference (mm) Length (mm)	164 243	162 244		163.0 243.5	6
	Declared size S Circumference (mm) Length (mm)	175 242	174 241		174.5 241.5	6½
	Declared size M Circumference (mm) Length (mm)	190 240	192 244		191.0 242.0	7½
	Declared size L Circumference (mm) Length (mm)	206 240	208 241		207.0 240.5	8
	Declared size XL Circumference (mm) Length (mm)	224 240	226 242		225.0 241.0	81⁄2*
5.2	Dexterity Smallest Pin Diameter (mm)	5 5	5	5	5	Performance level

^{*→} Fit for special purpose.

EN 374-2: 2014 Protective gloves against chemicals and micro-organisms - Part-2: Determination of resistance pentration

Clause	Test Name Air leak Test (Air Pressure Used : 0.5	Tes	Performance level	
4.1		Specimen #	Leakage	
	kPa)	Size XS	No Leakage	
		Size S	No Leakage	Pass
		Size M	No Leakage	
		Size L	No Leakage	
		Size XL	No Leakage	
4.2 Water le	Water leak test	Specimen #	Leakage	
		Size XS	No Leakage	
		Size S	No Leakage	Pass
		Size M	No Leakage	
		Size L	No Leakage	
		Size XL	No Leakage	

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pH VALUE With reference to ISO 3071:2005/Analysis by pH meter

Extraction Solution: KCL

GLOVES - BLUE

Value 6.8 3.5 - 9.5

Note: pH value of extraction medium: 5.0 - 7.5 Temperature of the extraction solution : 25±2 ℃

Note: Requirements given as per EN 420:2003 +A1:2009 (Clause: 4.3.2).

EN 16523-1:2015 Determination of material resistance to permeation by chemicals - Part-1: Permeation by Liquid chemical under conditions of Continuous contact.

Chemical CAS NO	Loop system/collection medium	Analytical technique used	Mean thickness (mm)	NBT at NPR 1.0 μ cm ⁻² min ⁻¹ (minutes)	Performance level accordance to EN ISO 374-1: 2016 Table 1	Observation
Methanol 67-56-1	Open loop/ Nitrogen	Continuous measurement With GC-FID	0.05 0.04 0.05	<1 <1 <1	Level - 0	Moderate swelling
Toluene 108-88-3	Open loop/ Nitrogen	Continuous measurement With GC-FID	0.04 0.04 0.05	<1 <1 <1	Level - 0	Severe swelling
Diethylamine 109-89-7	Open loop/ Nitrogen	Continuous measurement With PID	0.04 0.05 0.04	<1 <1 <1	Level - 0	Severe swelling
n-Heptane 142-85-5	Open loop/ Nitrogen	Continuous measurement With GC-FID	0.04 0.04 0.05	4 5 6	Level - 0	Slight swelling
Sodium hydroxide 40% 1310-73-2	Closed loop/ Grade 3 water	Continuous measurement With Conductivity electrode	0.05 0.05 0.04	> 480 > 480 > 480	Level - 6	No change
Sulphuric acid 96% 7664-93-9	Closed loop/ Grade 3 water	Continuous measurement With Conductivity electrode	0.04 0.05 0.04	2 3 2	Level - 0	Severe swelling & colour change

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EN 374-4:2013 Protective Gloves against Chemicals and Micro Organisms - Determination of resistance to degradation by chemicals

Chemical / CAS NO	Exposure Duration	Test Re	Observation		
OAO NO		Glove sample	Result (%)		
Methanol		1	72.3		
	00.5	2	58.4	0	
67-56-1	60±5 minutes	3	67.7	Severe swelling	
		Mean	66.1		
		Standard Deviation	7.051		
		Glove sample	Result (%)		
		1	81.4		
Toluene	60±5 minutes	2	78.9	Severe swelling	
108-88-3	60±5 Hilliutes	3	81.8	Severe swelling	
		Mean	80.7		
		Standard Deviation	1.571		
		Glove sample	Result (%)		
	60±5 minutes	1	94.7		
Diethylamine		2	91.1	Severe swelling	
109-89-7		3	89.2	Severe swelling	
		Mean	91.7		
		Standard Deviation	2.826		
		Glove sample	Result (%)		
	60±5 minutes	1	38.1		
n-Heptane		2	40.0	Moderate swelling	
142-85-5		3	38.1	woderate swelling	
		Mean	38.7		
		Standard Deviation	1.096		
	60±5 minutes	Glove sample	Result (%)		
Cadium budeovida		1	-6.0		
Sodium hydroxide 40% 1310-73-2		2	-15.1	No change	
		3	-4.8	No change	
		Mean	-8.6		
		Standard Deviation	5.662		
		Glove sample	Result (%)		
Sulphuric acid 96% 7664-93-9	60±5 minutes	1	100	Complete degradation	
		2	100		
		3	100	Complete degradation	
,004 00 0		Mean	100		
		Standard Deviation	0.000		

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