

TEST REPORT NUMBER: PAKT20013924

DATE : 17-Dec-2020

APPLICANT : American Safety Power Tool (Pvt) Ltd.

Plot No. 1&2, 12&13, Sector E-IV Phase-II, EPZA, Karachi, Pakistan

ATTN : Mr. Abdul Karim

Sample Description As Declared : Several Pieces Of One (1) Type Of Submitted N95

Face Mask Sample In White Color.

Fibre Content : None Given Style No. : M-1211786 Order No. : None Given

Buyer Name : Qadri & Qureshi General Trading Co. L.L.C.

Color : White End Uses : None Given

Agent : Safety Material Trading

Applicant Provided Care Instructions :

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Date Received : Refer To Remark

Date Confirmation Received

TEST CONDUCTED : AS PER THE REQUEST OF THE APPLICANT. FOR FURTHER DETAILS PLEASE

REFER TO ENCLOSED PAGE(S)

AUTHORIZED BY

FOR INTERTEK PAKISTAN (PVT.) LTD.

KHAWAR SHARF

BUSINESS LINE LEADER

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CONCLUSION:

Particle Filtration Efficiency (PFE)

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M = Meet Applicant's Requirement,F = Below Applicant's Requirement,D = Data

R = See Remark, N/A= Not Applicable, C = Conform Label, NC = Not Conform Label

= No Comment

**= Based upon the Weight Per Unit Area the sample is exempt from Flammability Testing in accordance with 16 CFR 1610.1(d).

*** = Based upon the Fiber Content the sample is exempt from Flammability Testing in accordance with 16 CFR 1610.1 (d).

Remark: No Sample Was Submitted For Testing, All Test Results Are Referred To Previous Test Report Number: PAKT20011043-Rev1 DD Nov 25, 2020.

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TEST REPORT

NUMBER : PAKT20013924 DATE : 17-Dec-2020

TEST CONDUCTED (AS REQUESTED BY THE APPLICANT)

Determining the Initial Efficiency of Materials Used in Medical Face Masks to Penetration by Particulates Using Latex Spheres

(ASTM F 2100-19^{ε1}, Section 9.3, Testing Refer to ASTM F2299-03 (2017))*

1. Purpose

The purpose of this test method is to measure the initial particle filtration efficiency of materials using monodispersed aerosols containing suspended latex spheres particulates of 0.1µm diameter.

2. Test Method

ASTM F2299-03 (2017), Modified

The test was performed based on ASTM F2299 with exception that the test procedure incorporated a non-neutralized aerosol challenge as per applicant's request. The non-neutralized aerosol is also specified in the FDA guidance document on surgical face masks.

3. Test Apparatus and Materials

- 3.1 Latex sphere particulates penetration efficiency test system
- 3.2 Suspension containing latex spheres particulates of 0.1µm diameter

4. Test Specimen

- 4.1 Minimum 5 specimens are required.
- 4.2 Precondition each material specimen at the test duct conditions at 30 to $50\pm5\%$ relative humidity and a temperature of $(21\pm3)^{\circ}$ C.

5. Procedure

- 5.1 Set main airflow, dilution airflow and aerosol generator airflow to test conditions
- 5.2 Establish airflow controls at test face velocity 5.33 cm/s. Purge main airflow for 10 to 15 minutes.
- 5.3 Warm-up optical particle counter (OPC) for 15 to 30 minutes.
- 5.4 Install the material specimen in the test system.
- 5.5 Sample and record the upstream and downstream aerosol counts for a minimum of five counts at each position using a 1-minute sampling time.
- 5.6 Average the upstream counts and the downstream counts, then calculate the decimal efficiency by the following definition:

Efficiency = 1 - penetration = 1- average downstream counts/average upstream counts.



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Results:

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Test Area:	100 cm ²	
Aerosol Challenge:	0.1 µm latex spheres (non-neutralized)	
Face Velocity:	5.33 cm/s	
Laboratory Condition:	23.0℃, 48.0% Relative Humidity (RH)	

Test Specimen Number	Filtration Efficiency (%)	Pass/Fail
1	99.7%	-
2	99.8%	-
3	99.8%	-
4	99.8%	-
5	99.8%	-

REMARK:

END OF THE TEST REPORT

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^{* =} Subcontracted To Intertek China



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