TEST REPORT

REPORT NUMBER: 14445-20
RECEIVING DATE: Aug 27 , 2020
ISSUE DATE: Aug 28 , 2020

Applicant	:	American Safety Power Tools Pvt Ltd.
Contact person	:	Mr. Asif Khan
Address	:	Plot 1&2, 12&13 E-IV Phase II, Export Processing Zone, Karachi.
Contact details	:	Tel: 03218979279 Fax: / Email: /

Manufacturer	:	American Safety Power Tools Pvt Ltd.
Buyer	:	Self-Reference
Brand	:	/
Label	:	/
Fabric	:	/
Fabric Weight	:	/
Content	:	/
Construction	:	/
Color	:	/
Style No	:	/
Reference	:	/
Program	:	/
Design	:	/
Country of Origin	:	/
Sample Description	:	Face Mask
Pervious Report No	:	/
End Use	:	/
Test Standard	:	/

Signed on the behalf of:
Tti Testing Laboratories

Ali Ashraf
General Manager Operations

Tti Testing Laboratories
347-S, Quaid-e-Azam Industrial Estate, Kot Lakhpat, Lahore-54770, Pakistan.
Tel: (92-42) 111 786 001, Fax: (92-42) 3515 4555, URL: www.ttilabs.net

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Test Results:

1. **Particulate Filtration Efficiency (PFE):**

ASTM F2299

This procedure was performed to evaluate the non-viable particle filtration efficiency (PFE) of the test article. Monodispersed polystyrene latex spheres (PSL) were nebulized (atomized), dried, and passed through the test article. The particles that passed through the test article were enumerated using a laser particle counter.

Three one-minute counts were performed, with the test article in the system, and the results averaged. Three one-minute control counts were performed, without a test article in the system, before and after each test article and the counts were averaged. Control counts were performed to determine the average number of particles delivered to the test article. The filtration efficiency was calculated using the average number of particles penetrating the test article compared to the average of the control values.

The procedure employed the basic particle filtration method described in ASTM F2299, with some exceptions; notably the procedure incorporated a non-neutralized challenge. In real use, particles carry a charge, thus this challenge represents a more natural state. The non-neutralized aerosol is also specified in the FDA guidance document on surgical face masks. All test method acceptance criteria were met.

Area Tested	10 mm^2
Particle Size	0.1 – 1.0 µm
Laboratory Conditions	21±3°C, 40±10% relative humidity (RH)

Particle filtration efficiency at different particle sizes

Filtration Efficiency(%)0.1 µm	Filtration Efficiency(%)0.3 µm	Filtration Efficiency(%)0.5 µm	Filtration Efficiency(%)1.0 µm
95.20	99.10	99.40	99.60

Note: Results reported on the submitted sample on an as received basis.

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Image of submitted sample

-------END OF REPORT-------

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