



Protechnik Laboratories
a division of Armscor SOC Ltd
110 Oak Avenue, Highveld Technopark, Centurion
P O Box 8854, Pretoria 0001, South Africa
Tel: 012 665 9444, Fax: 012 665 0240

Company Registration: 1968/008611/30 VAT Registration: 4370115786

TEST REPORT

DATE OF REPORT : 08 July 2020
DESCRIPTION OF SAMPLES : **KN95 Mask**
REPORT NO. : F A
QUOTATION NO. : COM 1100
CUSTOMER ORDER NO. : Paid
CONTACT PERSON : Martin van der Merwe
CONTACT DETAILS : 012 665 9431
CUSTOMER : Sanitize PPE (Pty) Ltd
CUSTOMER CONTACT PERSON : Myles Grizic
CUSTOMER ADDRESS : 4 Beach Road, Maitland, Cape Town
CUSTOMER E-MAIL : myles@san-i-tize.co.za
DESCRIPTION OF TESTS REQUIRED : Evaluation according to SANS 50149:2003
CONDITION OF SAMPLES : Good
SAMPLES RECEIVED DATE : 29 June 2020

Tests marked with an asterisk (*) in this report are not included in the SANAS schedule of accreditation for this laboratory.

DETAIL PRODUCT DESCRIPTION

Product	KN95 Mask (Picture 1)
Supplier	Sanitize PPE (Pty) Ltd

EVALUATION SUMMARY

The mask was evaluated using FFP2 specifications in SANS 50149:2003. The masks comply to all the tests conducted.

Par	Title	Finding
7.3	*Visual inspection	Pass
7.7	*Practical performance	Pass
7.8	*Finish of parts	Pass
7.9.1	*Total inward leakage	Pass
7.9.2	Penetration of filter material:	
	*Sodium chloride	Pass
	Paraffin oil	Pass
7.10	*Compatibility with skin	Pass
7.11	*Flammability	Pass
7.13	*Head harness	Pass
7.14	*Field of vision	Pass
7.16	*Breathing resistance	Pass

TEST CONDITION SUMMARY

Par	Item	Test par	Evaluation
7.9.1	Total inward leakage	8.5	Check face seal of the test subjects by wearing the mask while performing activities in an environment of 8 mg/m ³ sodium chloride aerosol
7.9.2	Penetration of filter material	8.11	Passing sodium chloride and paraffin oil aerosols through the particle mask at 95 l/min, respectively.
7.11	Flammability	8.6	Pass mask once over a single gas burner.
7.16	Breathing resistance	8.9	Breathing resistance at the flow of 30 and 95 l/min

PRODUCT PICTURES



Picture 1: KN95 mask

TEST RESULTS

Par	Title	Remarks
7.3	*Visual inspection	Pass Masks comply with all the requirements (Picture 1)

Par	Title	Remarks
7.6	*Cleaning and disinfecting	Follow manufacturer's instructions

Par	Title	Remarks
7.7	*Practical performance	Pass Test subjects were satisfied with the head harness comfort, security of fastening, compatibility with skin and field of vision of the mask.

Par	Title	Remarks
7.8	*Finish of parts	Pass No sharp edges and burrs.

Par	Title	Maximum Specification FFP2	Remarks
7.9.1	*Total inward leakage (2 test subjects)	Less than 8 % average test results per test subject	Pass Results were < 8 %

Par	Title	Maximum Specification FFP2	Avg. Results	Remarks
7.9.2	Penetration of filter material	%	%	
	* <u>Sodium chloride</u> As received	6	2.5	Pass
	<u>Paraffin oil</u> As received	6	3.9	Pass

Par	Title	Remarks
7.10.	*Compatibility with skin	Pass No skin irritation observed on the wearer's facial skin during total inward leakage test and practical performance period.

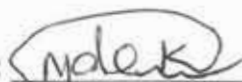
Par	Title	Remarks
7.11	*Flammability	Pass All parts of the mask were self-extinguished within 5 seconds after the mask passed through the flame.

Par	Title	Remarks
7.13	*Head harness	Pass The particle mask can be donned and removed easily.

Par	Title	Remarks
7.14	*Field of vision	Pass The particle mask did not interfere with the field of vision of the wearer.

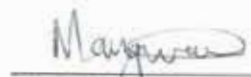
Par	Title	Maximum Specification FFP2	Avg. Results	Remarks
7.16	*Breathing resistance	Pa	Pa	
	<u>Inhalation at 30 L/min</u>			
	As received	70	42	Pass
	<u>Inhalation at 95 L/min</u>			
	As received	240	135	Pass

WORK PERFORMED BY:


Khanyiso Ndevu
(Junior Scientist)

08/07/2020
Date

WORK APPROVED BY:


Nkele Mangwane
(Scientist)

08/07/2020
Date

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