



#### Protechnik Laboratories

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

# **TEST REPORT**

DATE OF REPORT : 08 July 2020

DESCRIPTION OF SAMPLES : N95 Three Dimensional Protective

Respirator - DR MFYAN

REPORT NO. F B

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	N95 Three Dimensional Protective Respirator – DR MFYAN (Picture 1)
Supplier	Sanitize PPE (Pty) Ltd
Manufacturer	

### **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	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/m³ 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 t /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 Umin

### PRODUCT PICTURES



Picture 1: N95 Three Dimensional Protective Respirator - DR MFYAN

Report No.: FINIB

## **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	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	2.4	Pass
	Paraffin oil As received	6	4.6	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	
	Inhalation at 30 L/min			
	As received	70	53	Pass
	Inhalation at 95 L/min			
	As received	240	149	Pass

WORK PERFORMED BY:

Khanyiso Ndevu

Da

(Junior Scientist)

WORK APPROVED BY:

Nkele Mangwane

(Scientist)

Date

This report relates to the specific sample(s) tested as identified herein, it does not imply Protechnik approval of the quality and/or performance of the item(s) in question and the test results do not apply to any similar item that has not been tested.

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The acceptance of an item for test and the issue of a test report are subject to Protechnik Laboratories condition of test. This document is available on request.