







## **7401**

Premium Carbon Respirator

Moulded Adjustable Maintenance Free Respirator with Comfort Exhalation Valve

#### **Main Features:**

The 7401 respirator is:

Adjustable,

Maintenance Free,

Ergonomically Designed for a Clear Field of Vision

Has a superior harness with wide straps ensuring wearer

comfort

Has a exhalation valve for added user comfort.

### **Applications:**

Base Metal Manufacture

**Brick Manufacture** 

Laboratories

Powdered Additives

Pharmaceutical

**Powdered Chemicals** 

Sawmills

Food Industry

Textile industry

Craftwork

Iron and steel industry

Mining

Underground civil engineering

Woodworking

Welding work

Cutting and casting of metals

#### **Specifications:**

The 7401 respirator is approved to the following specification:

SANS 50149:2003 EN149:2001 FFP2



# TÜV TÜV Rheinland Group 70.9705034937

#### Quality

All respirators are manufactured in accordance with international standards and quality approvals.

GreenLine is ISO9001 accredited by TUV Rhineland Germany

#### **SABS Mark**

Manufactured under SABS Mark scheme

If you cannot see the mark on the product, it is because it does not have a SABS mark scheme permit!

Don't be fooled by products claiming to be SABS "Approved" only products with the SABS Mark on them are authorised and approved to be stamped with logo



Permit Number: 7152/10608

#### **Usage:**

Suitable to protect against low-to-average toxicity harmful materials in concentrations up to 12 X OEL

FFP2 respirators can provide protection against solid and liquid aerosols and smoke containing the following particulate materials such as:

Calcium carbonate / China clay / Cement / Cellulose / Sulphur / Cotton / Flour / Carbon / Ferrous metals / Hardwood / Glass fibres / Plastic / Vegetable oils/ Mineral oils / Quartz / Copper / Aluminium / Bacteria / Fungi & mycobacterium tuberculosis (T.B.)

Liquid or non-oil based particles from sprays that do not also emit vapours .

Metal fumes produced from welding, cutting and other operations involving heating of metals.

Carbon layer provides protection against nuisance levels of certain gases/vapours\*



#### **Made in South Africa**

- Designed To Suit Local Conditions
- Made by South Africans
- No Continuous Price Increases Due To Exchange Rate Fluctuations



#### **Homologation**

The 7401 respirator is:



For further information or technical specifications contact us on Tel: 086 1000 545 Email: sales@greenline-sa.com Web: www.greenline-sa.com





#### **Retention of Vapours by Activated Carbon** Retention % (w/w) **Substance Prediction of Activated Carbon Adsorption Capacities** Acetaldehyde 30 Acetic Acid Formula is a modified version of Dubinin/Radushkevich equation Acetone 15 Negligible $W_0 = W_0 \cdot d_L \exp[-BP_e^{-1.8} R^2 T^2 \{ln(P/P_{sat})\}^2]$ Ammonia Amyl Acetate 34 Where $P_e = (nd^2-1) M_W$ Benzine 25 (nd $^{2}+2$ ) $d_{L}$ Bromine (dry) 40 And $B=bW_0$ **Butyric Acid** 35 b=3.56x10<sup>-5</sup> Carbon disulphide (disulfide) 15 $W_0 = [S_a/2350]$ Carbon Tetrachloride 45 Chloroform 40 Legend W<sub>g</sub>= Adsorption Capacity (g/g<sub>carbon</sub>) Diethyl Ketone 30 W<sub>0</sub>=Micropore Volume (cm<sup>3</sup>/g<sub>carbon</sub>) Ethyl Alcohol 21 d<sub>L</sub>= Density of condensed liquid in micropores (liquid density) Ethyl Mercaptan 23 T= Temperature (Kelvin) P/P<sub>sat</sub>= Partial vapour pressure relative to saturation Formaldehyde Negligible R= Ideal Gas Constant (1.987 - units are in calories not Joules Heptane 23 P<sub>a</sub>= Molar refraction 16 Hexane nd= Refractive index (at approximately 293K) M<sub>W</sub>= Adsorbate molecular weight Hydrogen Sulphide (sulphide) 3 Sa= Surface area of Activated Carbon Indole 25 Iodine 40 WARNINGS 30 Iodoform Isopropyl Acetate 23 Do not use for respiratory protection against atmospheric Isopropyl Alcohol 26 contaminants concentrations which are unknown or immediately Menthol 20 dangerous to life and health. Methyl Ethyl Ketone (MEK) 25 · Leave the contaminated area immediately if: Naphthalene 30 a) Breathing becomes difficult. Nicotine 25 b) Dizziness or other distress occurs. 20 Nitrobenzene • Discard and replace the respirator if it becomes damaged, breathing Ozone Decomposes resistance becomes excessive or at the end of the shift. Phenol 30 Putrescine 25 · Never alter, modify or repair this device. Pyridine 25 These products do not protect against all gases/vapours, but offer Skatole 25 relief from nuisance levels\* of certain gases/ vapours. Toluene 29 \*Nuisance levels are exposure levels below the relevant national exposure Valeric Acid 35 standards Water 0 Xylene 34 **Body Odours** High Cooking Odours High

#### **Usage Limitations**

Sewer Odours

- Always be sure that the product is:
  - Suitable for the application;
  - Fitted correctly;
  - Worn during all periods of exposure;

High

- Replaced when necessary.
- Proper selection, training, use and appropriate maintenance are essential in order for the product to help protect the wearer from certain airborne contaminants.
- Failure to follow all instructions on the use of these respiratory protection products and/or failure to properly
  wear the complete product during all periods of exposure may adversely affect the wearer's health, lead to
  severe or life threatening illness or permanent disability.
- For suitability and proper, use follow local regulations, refer to all information supplied and or contact your occupational hygienist, safety professional





