

ENGLISH: INSTRUCTIONS FOR USE A: PRODUCT IDENTIFICATION

Sperian 6100 / 6100V / MX/PF half-mask - twin-filter respirators. The face-piece connectors of these masks are designed with a special thread-connection. Only Sperian filters whose product designation starts with the letters "T... and L ...", and RP21 holders (for P1/P2 particle filters) may be fitted to these respirators. Filters and/or filter combinations must be fitted in pairs (i.e. as twinfilters) in order to meet the requirements of European standards EN 143, EN 14387 (for filters) and EN 140 (for half-masks). Both filters or filter combinations must be identical and must be mounted on the face-piece connectors on each side of the face-piece. Do NOT mount one of the filters or filter combinations in a central position. Do NOT attempt to mount the exhalation-valve assembly on the face-piece in a position other than the central position.

B: APPLICATIONS / LIMITATIONS

B1: Protection against gases/vapours:

Half-mask respirators fitted with gas/vapour filters may be used in the presence of gas/vapour concentrations up to 20 x MAC / OEL / TLV [max. 1000 ppm (class 1), 5000 ppm (class 2)]

Full-face respirators fitted with gas/vapour filters may be used in the presence of gas/vapour concentrations up to 2000 x MAC / OEL / TLV [max. 1000 ppm (class 1), 5000 ppm (class 2)]. • [Warning: the nominal protection factors mentioned - 20, 2000 - are those specified in CEN document CR 529 - "Guidelines for Selection and Use of Respiratory Protective Devices"; they are given only as an indication and may be liable to modification].

B2: Protection against particulate:

Half-mask respirators fitted with particulate filters may be used in the presence of particulate concentrations up to 4.5 x MAC / OEL / TLV with a P1 filter, 12 x MAC / OEL / TLV with a P2 filter, 50 x MAC / OEL / TLV with a P3 filter. • Full-face respirators fitted with particulate filters may be used in the presence of particulate concentrations up to 5 x MAC / OEL / TLV with a P1 filter, 16 x MAC / OEL / TLV with a P2 filter, 1000 x MAC / OEL / TLV with a P3 filter.

B3: Other limitations:

Combination filters (i.e. for use against gas/vapours and particulates) must be used in accordance with the limitations for both types of contaminant. • For further information on contaminant types and classifications, see instructions provided with filters.

C: CHECKS PRIOR TO USE

1: Checks prior to use must be carried out in a non-contaminated area. 2: Check that the filter or filter combination, and the face-piece to which they are to be attached, are suitable for the type and concentration of contaminant(s) present in the work area. If in doubt, see your Supervisor. 3: Check filters according to instructions provided with filters. 4: Check that the face-piece, subassemblies and components, are clean and in good condition - see also section G: Maintenance and Storage.

D: FITTING INSTRUCTIONS

Filters must be attached to the face-piece (see instructions provided with filters), before putting on the respirator. 1: Fit the face-piece to the bridge of the nose and bring the bottom of the face-piece into contact with the chin. 2: Attach the lower straps around the neck, without tightening. 3: Place the upper head-strap assembly over the crown of the head and tighten the straps equally on both

sides. 4: Tighten the lower head-straps equally on both sides. 5: Adjust straps sufficiently to prevent leakage around the face-piece. 6: Check face-fit according to Section E.

E: RESPIRATOR FIT-TEST

1: Place the hands firmly over the inlet to the filter(s) and breathe in. A negative pressure should be felt inside the face-piece. Hold breath for 5 seconds. 2: Any leakage will be indicated by the respirator moving away from the face. 3: If leakage is detected, re-adjust the respirator and repeat the test until a satisfactory face-fit is achieved.

F: DIRECTIONS FOR USE

1: Wear the respirator for the whole duration of exposure to contaminants. 2: Use in accordance with applicable health and safety regulations and in accordance with available documentation as provided by competent authorities (e.g. CEN document CR 529 - "Guidelines for Selection and Use of Respiratory Protective Devices"). 3: Replace particulate filters and gas/vapour/particulate filters if excessive clogging causes breathing difficulty or discomfort. 4: Replace gas/vapour filters and gas/vapour/particulate filters if the smell or taste of gases/vapours present becomes detectable (or after 50 hours for Hg-P3 filters). AX and NO-P3 filters are for single-use only and must therefore be discarded at the end of each shift. 5: Leave the contaminated area if dizziness, irritation or other distress occurs, or if the respirator becomes damaged. 6: At the end of their service-life, filters should be discarded with due regard to their contents. Where appropriate, replace the protective caps. 7: Before removing the respirator, return to a non-contaminated area. To remove the respirator, slacken head-straps and disengage in reverse order compared to procedure outlined in Section D.

G: MAINTENANCE AND STORAGE

1: The face-piece should be cleaned after each use. Return to a non-contaminated area. Remove filters, headbands and valves from the face-piece. 2: Immerse all parts (except filters) in a warm water-based cleaning solution (use neutral detergents only). Scrub with a soft brush. 3: Rinse in warm water and air-dry in a non-contaminated atmosphere. 4: Before next use, inspect the equipment by checking the following points: headbands (elasticity, breaks or tears and correct functioning of headband attachments) / face-piece (cracks, tears, distortion and flexibility) / valves (cracks, tears, distortion, dirt between valve and seat, exhalation valve cover in place) / plastic parts (cracks, material fatigue). Defective parts should be replaced. If in doubt, see your Supervisor. Valve membranes should be replaced at least every 12 months. For replacement of other parts, consult your distributor. 5: Un-used face-pieces must be stored in a dry non-contaminated atmosphere. 6: Respirators (face-piece + filter(s)) in use must be stored in an air-tight container in a dry non-contaminated atmosphere between 5°C and 25°C and below 90% relative humidity.

H: WARNINGS

- 1: NEVER modify or alter the equipment.
- 2: This equipment does NOT supply oxygen.
- 3: Do NOT use in oxygen-deficient atmospheres i.e. less than 17% oxygen (United Kingdom - 19%), nor in oxygen-enriched atmospheres i.e. greater than 25% oxygen.
- 4: Do NOT use in areas where contaminants or their concentrations are unknown or immediately dangerous to life or health.

5. Do NOT use in tanks or other confined spaces or poorly ventilated areas likely to contain high contaminant concentrations.

6. Do NOT use in explosive atmospheres unless authorised by your Supervisor.

7: Do NOT use under water.

8: Requirements for leak-tightness are unlikely to be achieved if the respirator is worn against a beard or facial stubble. Spectacle side-arms may interfere with leak-tightness of full-face masks.

9: Respiratory protective equipment must be specified, fitted, used, maintained and stored only by, and/or under the supervision of, trained and qualified personnel and in accordance with instructions provided with the equipment and in accordance with available documentation as provided by competent authorities (e.g. CEN document CR 529 - "Guidelines for Selection and Use of Respiratory Protective Devices" and/or versions of this document as published by national Standards organisations).

NOTE: MAC = Maximum Admissible Concentration. OEL = Occupational Exposure Limit. TLV = Threshold Limit Value.