

perfect fit to any face due to bowl shape

wide bore exhalation valves for hard work at high dust concentration

highly efficient prefilter layer made of non-woven with triboelectric effect for very low breathing resistance combined with high capacity of solid and liquid aerosols comprising bigger particles

folded respirator is small and flat to fit easily into an overall pocket

thin delicate fabric for non-allergenic, non-irritating and comfortable contact with user's face

rubber tape fixed at the bowl in two points for independent tightening at upper and lower parts of a face

protruding weld in lower part enables free use of eyeglasses

flexible clamp for perfect seal on the nose

second filter layer from submicrometer fibre non-woven to retain solid and liquid aerosols comprising smaller particles



SECAIR
half-mask respirators for all requirements:

- **without exhalation valves**
Respirators with the highest filter area combined with the highest dust retaining capacity. Designed for working without intense physical effort in extremely dusty atmosphere.
- **with one exhalation valve**
Wide bore valve reduces exhalation resistance and lowers carbon dioxide concentration under the half-mask facilitating intense working in high dustiness.
- **with two exhalation valves**
Two wide bore valves ensure very low exhalation resistance and low carbon dioxide concentration under the half-mask. Designed for very intense working in high dustiness conditions.

RESPIRATORS P1 CLASS
SECAIR 0P1,
SECAIR 1P1,
SECAIR 2P1.



P1 class SECAIR respirators are designed for protection of respiratory tracts against solid and liquid aerosols in conditions where the dispersed aerosol (mist) phase concentration does not exceed 4 x MPV.

RESPIRATORS P2 CLASS
SECAIR 0P2,
SECAIR 1P2,
SECAIR 2P2.



P2 class SECAIR respirators are designed for protection of respiratory tracts against solid and liquid aerosols in conditions where the dispersed aerosol (mist) phase concentration does not exceed 10 x MPV.

RESPIRATORS P3 CLASS
SECAIR 0P3,
SECAIR 1P3,
SECAIR 2P3.



P3 class SECAIR respirators are designed for protection of respiratory tracts against solid and liquid aerosols in conditions where the dispersed aerosol (mist) phase concentration does not exceed 20 x MPV.

MPV – Maximum Permissible Value

SECAIR

disposable respirators
for professionals

Technical specification of SECAIR respirators - FFP1D class

Parameter	Respirator type		
	SECAIR 0P1 no exhalation valve	SECAIR 1P1 one exhalation valve	SECAIR 2P1 two exhalation valves
Class (acc. to EN 149:2001)	FFP1D	FFP1D	FFP1D
	Parameter value		
NaCl aerosol or oil mist penetration through filter material	≤ 20%	≤ 20%	≤ 20%
Total inward leakage	≤ 22%	≤ 22%	≤ 22%
Initial inhalation resistance at 95 l/min air flow rate	≤ 210 Pa	≤ 210 Pa	≤ 210 Pa
Initial exhalation resistance at 160 l/min air flow rate	≤ 300 Pa	≤ 300 Pa	≤ 300 Pa
Breathing resistance at the end of clogging test with dolomite dust: - 95 l/min (inhalation) - 160 l/min (exhalation)	≤ 300 Pa —	≤ 300 Pa ≤ 400 Pa	≤ 300 Pa ≤ 400 Pa
Weight (g)	13	19	21

Application examples of FFP1D class respirators:

hard and brown coal mining as well as granite, marble, sandstone, dolomite etc.; iron, steel and stone machining (cutting, grinding); soft wood machining in sawmills and joineries; brushing of castings and steel structures; production, handling and application of lime, cement, artificial fertilisers, raw materials for glass and ceramic industry, raw materials for rubber industry.

Technical specification of SECAIR respirators - FFP2D class

Parameter	Respirator type		
	SECAIR 0P2 no exhalation valve	SECAIR 1P2 one exhalation valve	SECAIR 2P2 two exhalation valves
Class (acc. to EN 149:2001)	FFP2D	FFP2D	FFP2D
	Parameter value		
NaCl aerosol or oil mist penetration through filter material	≤ 6%	≤ 6%	≤ 6%
Total inward leakage	≤ 8%	≤ 8%	≤ 8%
Initial inhalation resistance at 95 l/min air flow rate	≤ 240 Pa	≤ 240 Pa	≤ 240 Pa
Initial exhalation resistance at 160 l/min air flow rate	≤ 300 Pa	≤ 300 Pa	≤ 300 Pa
Breathing resistance at the end of clogging test with dolomite dust: - 95 l/min (inhalation) - 160 l/min (exhalation)	≤ 400 Pa —	≤ 500 Pa ≤ 300 Pa	≤ 500 Pa ≤ 300 Pa
Weight (g)	16	21	23

Application examples of FFP2D class respirators:

mining of minerals containing more than 50% of free silica; electric welding; melting and casting metals (excluding zinc and lead); machining of aluminium and its alloys, mining and processing of metal ores (copper, zinc, lead, iron); cutting and grinding of hard wood; production of fodder and pharmaceutical products.

Technical specification of SECAIR respirators - FFP3D class

Parameter	Respirator type		
	SECAIR 0P3 no exhalation valve	SECAIR 1P3 one exhalation valve	SECAIR 2P3 two exhalation valves
Class (acc. to EN 149:2001)	FFP3D	FFP3D	FFP3D
	Parameter value		
NaCl aerosol or oil mist penetration through filter material	≤ 1%	≤ 1%	≤ 1%
Total inward leakage	≤ 2%	≤ 2%	≤ 2%
Initial inhalation resistance at 95 l/min air flow rate	≤ 300 Pa	≤ 300 Pa	≤ 300 Pa
Initial exhalation resistance at 160 l/min air flow rate	≤ 300 Pa	≤ 300 Pa	≤ 300 Pa
Breathing resistance at the end of clogging test with dolomite dust: - 95 l/min (inhalation) - 160 l/min (exhalation)	≤ 500 Pa —	≤ 700 Pa ≤ 300 Pa	≤ 700 Pa ≤ 300 Pa
Weight (g)	17	23	26

Application examples of FFP3D class respirators:

metal oxide fumes (zinc, lead, arsenic, vanadium, silver) generated during melting, casting or machining metals (welding, grinding); hard coal mining where uranium or radium compounds are present; tanneries and electroplating plants (chromate dusts and mists); selected pigments (cadmium sulphide); artificial mineral fibres; asbestos dust; dusts and mists of pharmaceutical products.

The most economical respirator
thanks to superior dust loading capacity
and comfortable respiration



SECAIR respirators fulfill requirements of the European standard EN-149:2001.

SECURA'S production is subjected to a system for ensuring EC quality of production by means of monitoring to implement article 11B of the 89/686/EEC directive relating to Personal Protective Equipment.



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