

# ▶ SafeAir badge

## Chemical gas detection badge



### Features

- Available for 20 different gases
- Quickly indicates the presence of contaminant
- Ideal for daily employee screening
- Indication of the average exposure value
- No calibration or laboratory analysis required
- Use from 4 to 37 °C
- Storage for 1 to 3 years at 4 °C

### Product description

The **SafeAir chemical badge** is a personal equipment for monitoring exposure to toxic gases over exposure times ranging from 15 minutes to 24 hours. Small and discreet, it is designed to detect gas presence at concentrations below the exposure limit value by changing color.

**SafeAir badges** are very popular for measuring and controlling the concentrations of arsenic, chlorine, aromatic isocyanates (TDI, MDI), formaldehyde, hydrazine, mercury, ozone, phosgene, etc.

#### ▶ User-friendly

Easy to use, precise, economical and requiring no special technical skills or calibration, the **SafeAir** consist of a colorimetric badge with direct reading and a color comparison table. Most of them are waterproof and all are insensitive to relative humidity. The color changes and forms an exclamation mark which instantly indicates to its wearer presence of chemical hazard. Detection is done by a flat sensor integrated in the badge allowing a uniform and stable color unlike impregnated paper.

#### ▶ A color comparator

For better interpretation and precision of the gas quantity to which the wearer has been exposed, all you have to do is take the color comparator and slide the SafeAir badge on it. Then turn the wheel and find the color corresponding to the exclamation point and know the exact gas exposure rate.



Ref	Gas	Mesure Range	Interference	Color comparator
382010	Ammonia	4 ppm/hr	Primary aliphatic amines	
382009	Chlorine	0.18 ppm/hr	Br <sub>2</sub> , HCl, I <sub>2</sub>	383010 0.3 - 3 ppm/hr
382003	Chlorine / Chlorine dioxide	Cl: 0.18 ppm/hr ClO <sub>2</sub> : 0.2 ppm/hr	Cl: Br <sub>2</sub> , HCl, I <sub>2</sub> ClO <sub>2</sub> : NO <sub>2</sub> , high conc. O <sub>3</sub>	
382018	sulphur dioxide	0.2 ppm/hr	None known	
382011	Formaldehyde	0.4 ppm/hr	Acrolein	
382002	Hydrazine	8 ppb/hr	MMH, aromatic amines	383001 4.5 - 300 ppb/hr
382020	Hydrazine two levels	Front: 8 ppb/hr, Back: 4 ppb/hr	MMH, aromatic amines	383004 6 - 300 ppb/hr
382001	Aromatic isocyanates	TDI: 5 ppb/hr MDI: 3.5 ppb/hr	Aromatic isocyanates, high conc. Hydrazine	383005 2.5 - 700 ppb/hr
382005	Mercury	Front 0.25 mg/m <sup>3</sup> /hr, Back 0.08 mg/m <sup>3</sup> /hr	Strong oxidizers	
382012	Carbon monoxide	7 ppm/hr	Alkenes, H <sub>2</sub> , H <sub>2</sub> S	
382004	Ozone	0.05 ppm/hr	H <sub>2</sub> O <sub>2</sub> , above 1ppm NO <sub>2</sub>	
382000	Phosgene	15 ppb/hr	COBr <sub>2</sub> , CNCl, ClCO <sub>2</sub>	383000 0.9 - 100 ppm/min
382015	Hydrogen sulfide	2 ppm/hr	None known	