• Immediate, on-site results
• Easy-to-read color change
• Highly sensitive and selective
• Exposure data read directly from badge
• Measure TWA exposure

Immediate response for short-term exposure measurements
Patented design minimizes effects of humidity and velocity
Light-weight and cost effective for personnel and area monitoring

For higher resolution and accuracy, the ChromAir badges may be used with the ChromAir color comparators. The color scales on the color comparator identically match the colors formed on the ChromAir badge. Available for following ChromAir badges:

MORPHIX® TECHNOLOGIES

2557 Production Road, Virginia Beach, VA 23454
Toll-Free (US only): 800-808-2234
Phone: +1-757-431-2260  Fax: +1-757-216-6209
www.morphtec.com  e-mail: sales@morphtec.com
Publication Number: MT-CASA-0619rev6

For higher resolution and accuracy, the ChromAir badges may be used with the ChromAir color comparators. The color scales on the color comparator identically match the colors formed on the ChromAir badge. Available for following ChromAir badges:

<table>
<thead>
<tr>
<th>PART #</th>
<th>ANALYTE</th>
<th>RANGE (ppm • hr)</th>
<th>INTERFERENCES</th>
</tr>
</thead>
<tbody>
<tr>
<td>380006</td>
<td>Carbon Monoxide</td>
<td>10 - 480</td>
<td></td>
</tr>
<tr>
<td>380001</td>
<td>Formaldehyde</td>
<td>0.3 - 40</td>
<td></td>
</tr>
</tbody>
</table>

Principle of Operations

The ChromAir badge is a colorimetric direct-read monitor. It relies on the principle of diffusion; therefore it requires no pump to operate. Unlike traditional diffusion tubes, the patented design of the ChromAir badge provides a short and constant diffusion path irrespective of the sampling time or concentration. This unique feature provides accurate results immediately and throughout the sampling period.

The ChromAir monitor provides the user with six exposure levels. Most ChromAir badges indicate from 1/10 to 2 times the time-weighted-average for an eight hour work period. The scale printed on the badge and color comparator is based on exposure dose [parts per million times hour (ppm • hr)]. To determine the average concentration, locate the highest cell with a color change and divide the corresponding dose level (ppm • hr) by the sampling time in hours (hr). EXAMPLE: If the sampling time is 2 hours and the badge reads 40 ppm • hr, the average concentration is determined by: 40 ppm • hr/2hr. Therefore, the time weighted average concentration is 20 ppm.

1 ChromAir glutaraldehyde STEL badges are for 15 minutes of monitoring only. The scale on the Badge is in ppm.
2 ChromAir mercury badge and color comparator scale is in mg/m² • hr.
3 Coefficient must be applied to scale printed on badge.
4 ChromAir ozone badges are ten times more sensitive to ozone than nitrogen dioxide.

Color Comparators

For higher resolution and accuracy, the ChromAir badges may be used with the ChromAir color comparators. The color scales on the color comparator identically match the colors formed on the ChromAir badge. Available for following ChromAir badges:

<table>
<thead>
<tr>
<th>PART #</th>
<th>ANALYTE</th>
<th>RANGE (ppm • hr)</th>
</tr>
</thead>
<tbody>
<tr>
<td>384006</td>
<td>Carbon Monoxide</td>
<td>10 - 480</td>
</tr>
<tr>
<td>384001</td>
<td>Formaldehyde</td>
<td>0.3 - 40</td>
</tr>
</tbody>
</table>