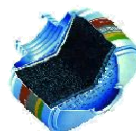


|                                |                                                                                                                                                                                                |                                                                                     |                                                                                          |
|--------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|
|                                |                                                                                                                                                                                                | <div><div>MSA</div><div>The Safety Company</div></div>                              |                                                                                          |
| Technical Data Sheet           |                                                                                                                                                                                                |                                                                                     |                                                                                          |
| Description                    |                                                                                                                                                                                                |                                                                                     |                                                                                          |
| Description                    | 90 AB                                                                                                                                                                                          |                                                                                     |                                                                                          |
| Part Number                    | 10098113                                                                                                                                                                                       |                                                                                     |                                                                                          |
| Marking according to EN        | A2, B2                                                                                                                                                                                         |                                                                                     |                                                                                          |
| Conditions of use              | <ul style="list-style-type: none"><li>organic gases and vapors with a boiling point &gt; 65° C</li><li>inorganic gases and vapors, e.g. chlorine, hydrogen sulfide, hydrogen cyanide</li></ul> |  |                                                                                          |
| Colour code                    | <div><div>brown</div><div>grey</div></div>                                                                                                                                                     |  |                                                                                          |
| Labels                         |                                                                                                              |                                                                                     | <div><div>90 AB</div><div>10098113</div><div>EN 14387 A2 B2</div><div>CE0121</div></div> |
| Characteristics                |                                                                                                                                                                                                |                                                                                     |                                                                                          |
| Weight [g]                     | 230                                                                                                                                                                                            |                                                                                     |                                                                                          |
| Diameter [mm]                  | 107                                                                                                                                                                                            |                                                                                     |                                                                                          |
| Height incl. thread [mm]       | 70                                                                                                                                                                                             |                                                                                     |                                                                                          |
| Connection                     | EN 148 - 1                                                                                                                                                                                     |                                                                                     |                                                                                          |
| Breathing Resistance           |                                                                                                                                                                                                |                                                                                     |                                                                                          |
|                                | at                                                                                                                                                                                             | EN 14387 requirements                                                               | Typical values                                                                           |
|                                | 30 l / min                                                                                                                                                                                     | 1,40 mbar                                                                           | 0,65 mbar                                                                                |
|                                | 95 l / min                                                                                                                                                                                     | 5,60 mbar                                                                           | 2,95 mbar                                                                                |
| Concentration of Testing Gases |                                                                                                                                                                                                |                                                                                     |                                                                                          |
| Class 1                        | 1000 ppm [0,1 Vol.-%]                                                                                                                                                                          |                                                                                     |                                                                                          |
| Class 2                        | 5000 ppm [0,5 Vol.-%]                                                                                                                                                                          |                                                                                     |                                                                                          |
| Performances                   |                                                                                                                                                                                                |                                                                                     |                                                                                          |
| Filter type and class          | Gases of reference                                                                                                                                                                             | EN 14387 requirements                                                               | Typical values                                                                           |
| A2                             | cyclohexane [C <sub>6</sub> H <sub>12</sub> ]                                                                                                                                                  | 35 min                                                                              | 65 min                                                                                   |
| B2                             | chlorine [Cl <sub>2</sub> ]                                                                                                                                                                    | 20 min                                                                              | 45 min                                                                                   |
|                                | hydrogen sulfide [H <sub>2</sub> S]                                                                                                                                                            | 40 min                                                                              | 75 min                                                                                   |
|                                | hydrocyanic acid [HCN]                                                                                                                                                                         | 25 min                                                                              | 50 min                                                                                   |
| Material                       |                                                                                                                                                                                                |                                                                                     |                                                                                          |
| Housing                        | aluminium                                                                                                                                                                                      |                                                                                     |                                                                                          |
| Filtering material             | impregnated activated carbon                                                                                                                                                                   |                                                                                     |                                                                                          |
| Details/Special Information    |                                                                                                                                                                                                |                                                                                     |                                                                                          |
| Storage conditions & time      | - 5 °C to + 50°C, < 90 % r. h. 6.0 years                                                                                                                                                       |                                                                                     |                                                                                          |