

## DATA SHEET

### PVC protective suit



Updated: 01 Feb 2005

<b>Description:</b>	Protective encapsulated suit, specially made for use with SE400 positive pressure demand respirator. The SE400 can be fitted with an optional pressurisation hose which maintains a slight positive pressure inside the suit.														
<b>Product name:</b>	S.E.A. PVC protective suit														
<b>Use:</b>	Used to protect the entire body while wearing the SE400 respirator. Protects against particles, aerosols, splashes and gas. Resistant to a wide variety of chemicals.														
<b>Material:</b>	Polyamide fabric coated with PVC on both sides.														
<b>Weight of material:</b>	509 g/m <sup>2</sup>														
<b>Mechanical resistance of material:</b> <i>Classification based on prEN 943-1: 1995</i>	<table border="0"> <tr> <td>Abrasion</td> <td>6</td> </tr> <tr> <td>Stability to heat/blocking</td> <td>2</td> </tr> <tr> <td>Flex cracking</td> <td>6</td> </tr> <tr> <td>Tear</td> <td>2</td> </tr> <tr> <td>Burst</td> <td>3</td> </tr> <tr> <td>Puncture</td> <td>3</td> </tr> <tr> <td>Seam strength</td> <td>5</td> </tr> </table>	Abrasion	6	Stability to heat/blocking	2	Flex cracking	6	Tear	2	Burst	3	Puncture	3	Seam strength	5
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<b>Chemical resistance of material:</b> <i>Classification based on prEN 943-1: 1995</i>	Sodium hydroxide 40% >8 hours breakthrough time														
<b>Suit construction :</b>	<p><b>Seams:</b> Sewn with welded on strip on the outside.</p> <p><b>SE400:</b> The SE400 fan unit, hose and face piece are worn completely inside the suit. The fan unit is worn on a balanced, convenient back-pack.</p> <p><b>SE400 filters:</b> Sealed off from the interior of the suit by two threaded sealing rings.</p> <p><b>Gloves:</b> Chemically impermeable gloves are fastened to the rigid sleeve rings with an airtight seal. The gloves are designed to be worn inside regular working gloves or rubber, leather or other materials.</p> <p><b>Booties:</b> Booties are permanently sealed to the suit legs. Booties slip easily into regular outer boots. A special skirt covers the bootleg for further protection.</p>														
<b>Visor:</b>	Impact and chemical resistant transparent PVC visor. Very wide and deep field of vision. An additional visor overhead makes it possible to look upwards and see objects overhead.														
<b>Total inward leakage :</b>	One unique feature of the S.E.A. PVC suit is that it can be used with a pressurisation hose which turns the suit into a positive pressure suit. Total inward leakage into the suit if using pressurisation hose is typically 0.1%														
<b>Storage:</b>	Store at room temperature in clean, dry place														

## How pressurisation works:



Fitted with a special breathing hose featuring a bleed valve, the fan unit of the SE400 inflates the suit with clean air and maintains a positive pressure inside the suit.

The wearer always has priority over pressurisation. When you are not breathing in air, the suit is inflated.

This not only contributes to the perceived cooling and ventilation of the suit, but also keeps inward leakage down to 0.1% typically.



Bleed valve on the breathing hose

