Personal Protective Clothing: Providing Performance, Safety and Comfort

Description: Personal protective clothing is one of the largest single segments of the performance apparel industry and is a major component of personal protective equipment (PPE). In most developed countries, PPE markets are characterised by their extreme competitiveness and maturity, and this has restrained their potential for growth. As a result, several PPE suppliers have been targeting developing markets in a bid to maintain their sales growth targets and enhance their global competitive position.

Another challenge is to persuade workers to wear appropriate personal protective clothing whenever they face an occupational hazard. Workers are demanding increasingly that their protective clothing not only safeguards their health in the workplace but is also comfortable to wear -- and manufacturers are responding accordingly. As a result, the use of high performance fabric with moisture management and thermal regulation properties has become widespread. Such factors have become powerful selling tools and are key to increasing compliance with regulations which call for the use of personal protective clothing.

Furthermore, there is a drive for the personal protective clothing industry to become more sustainable by reducing consumption of petroleum-based materials and using sustainable raw materials and processes. This report provides an analysis of the PPE market and presents the key challenges facing suppliers of personal protective clothing. In addition, it includes detailed information on the main categories of personal protective clothing, the fibres and fabrics used in the manufacture of personal protective clothing and the latest product innovations in the sector. Furthermore, it provides information on the stringent standards and regulations enforced within the industry and provides an outlook for the future.

Contents:
SUMMARY
INTRODUCTION
MARKET FOR PERSONAL PROTECTIVE EQUIPMENT
Factors affecting the market
SUPPLIERS OF PERSONAL PROTECTIVE EQUIPMENT
MAJOR TRENDS IN THE PERSONAL PROTECTIVE CLOTHING INDUSTRY
Comfort
Design and fashion
Design
Fashion
New product developments
Emerging technologies
Commitment to sustainability
KEY CHALLENGES FACING SUPPLIERS OF PERSONAL PROTECTIVE CLOTHING
THE NEED FOR PERSONAL PROTECTIVE CLOTHING
Physical hazards in the working environment and their effects
Health-related hazards in the working environment and their effects
Protection of objects and equipment in the working environment
MAIN CATEGORIES OF PERSONAL PROTECTIVE CLOTHING FIBRES AND FABRICS USED IN PROTECTIVE CLOTHING STANDARDS REGULATIONS
INNOVATIONS IN PERSONAL PROTECTIVE CLOTHING
Ansell: HyFlex gloves for cut protection applications
Bulwark and Milliken: IQ Series flame resistant (FR) protective apparel
Coats: Flamepro flame resistant (FR) and cut resistant yarn
Coats: Signal flame resistant (FR) reflective tape
DSM: Dyneema Force Multiplier Technology material for ballistic protection
Fraunhofer-Einrichtung für Mikrosysteme und Festkörper-Technologien: gloves which detect toxic substances
G&K Services: flame resistant (FR) knitwear
G&K Services: Vented flame resistant (FR) uniforms
Lawrence Livermore National Laboratory (LLNL): material which repels chemical and biological agents for use in military uniforms
Mount Vernon FR: amDry fabric finish for protective workwear
Mount Vernon FR: Amtex TC flame resistant (FR) fabrics
Mount Vernon FR: FlexTex flame resistant (FR) fabric for protective workwear
Mount Vernon FR and Carhartt: extremes arctic flame resistant (FR) workwear
National Safety Apparel (NSA): CarbonComfort flame resistant (FR) workwear
Schoeller: pyroshell flame resistant (FR) fabrics
Teijin Aramid: Twaron 550F1000 lightweight aramid yarn for anti-ballistic and anti-stab products
TenCate Protective Fabrics: TenCate Gemini XTL for firefighters' turnout gear
TenCate Protective Fabrics: TenCate Millenia for firefighters' turnout gear
Victor Group: Ecoshield environmentally friendly flame resistant (FR) fabric

OUTLOOK

List of tables
Table 1: Overview of the global personal protective equipment (PPE) market
Table 2: Types of hazards in the workplace and related personal protective equipment (PPE) options
Table 3: Key players in the global market for personal protective clothing and accessories, 2015
Table 4: World: workplace injuries, 2010-13
Table 5: World: use of personal protective equipment (PPE) by industry, 2013
Table 6: Key categories of personal protective clothing and their purposes
Table 7: Fibres and fabrics used in personal protective clothing

List of figures
Figure 1: A glove which has changed colour in the presence of a toxic substance
Figure 2: Pyroshell

Ordering:  
Order Online - http://www.researchandmarkets.com/reports/3340027/
Order by Fax - using the form below
Order by Post - print the order form below and send to

Research and Markets,
Guinness Centre,
Taylors Lane,
Dublin 8,
Ireland.
Fax Order Form
To place an order via fax simply print this form, fill in the information below and fax the completed form to 646-607-1907 (from USA) or +353-1-481-1716 (from Rest of World). If you have any questions please visit http://www.researchandmarkets.com/contact/

Order Information
Please verify that the product information is correct and select the format(s) you require.

<table>
<thead>
<tr>
<th>Product Name:</th>
<th>Personal Protective Clothing: Providing Performance, Safety and Comfort</th>
</tr>
</thead>
<tbody>
<tr>
<td>Web Address:</td>
<td><a href="http://www.researchandmarkets.com/reports/3340027/">http://www.researchandmarkets.com/reports/3340027/</a></td>
</tr>
<tr>
<td>Office Code:</td>
<td>SC</td>
</tr>
</tbody>
</table>

Product Formats
Please select the product formats and quantity you require:

<table>
<thead>
<tr>
<th>Product Format</th>
<th>Quantity</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electronic (PDF) - Single User</td>
<td>□</td>
<td>USD 683</td>
</tr>
<tr>
<td>Electronic (PDF) - Site License</td>
<td>□</td>
<td>USD 1366</td>
</tr>
<tr>
<td>Electronic (PDF) - Enterprisewide</td>
<td>□</td>
<td>USD 4098</td>
</tr>
</tbody>
</table>

* The price quoted above is only valid for 30 days. Please submit your order within that time frame to avail of this price as all prices are subject to change.

Contact Information
Please enter all the information below in BLOCK CAPITALS

<table>
<thead>
<tr>
<th>Title:</th>
<th>Mr</th>
<th>Mrs</th>
<th>Dr</th>
<th>Miss</th>
<th>Ms</th>
<th>Prof</th>
</tr>
</thead>
<tbody>
<tr>
<td>First Name:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Last Name:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Email Address: *</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Job Title:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Organisation:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Address:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>City:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Postal / Zip Code:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Country:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Phone Number:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fax Number:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* Please refrain from using free email accounts when ordering (e.g. Yahoo, Hotmail, AOL)
Payment Information

Please indicate the payment method you would like to use by selecting the appropriate box.

☐ Pay by credit card: You will receive an email with a link to a secure webpage to enter your credit card details.

☐ Pay by check: Please post the check, accompanied by this form, to:

Research and Markets,
Guinness Center,
Taylors Lane,
Dublin 8,
Ireland.

☐ Pay by wire transfer: Please transfer funds to:

Account number 833 130 83
Sort code 98-53-30
Swift code ULSBIE2D
IBAN number IE78ULSB98533083313083
Bank Address Ulster Bank,
27-35 Main Street,
Blackrock,
Co. Dublin,
Ireland.

If you have a Marketing Code please enter it below:

Marketing Code:

Please note that by ordering from Research and Markets you are agreeing to our Terms and Conditions at http://www.researchandmarkets.com/info/terms.asp