# Special Hazard Workwear



# **Health & Safety High Visibility Garments**

# The requirements & the facts

Being struck by a moving vehicle is the **second** most common cause of death in the workplace. It is therefore essential that any high visibility garments issued to employees conform to all relevant performance standards (EN471:2003/ EN20471:2013, European Standard for High Visibility Clothing), and are worn and maintained correctly for maximum protection.

### So what does this mean to you? In order to comply with all **UK and European legislation**, you need to ensure that the high visibility garments you buy comply with the following: 'High visibility clothing

conforming to EN471:2003/EN20471:2013 which must be worn at all times."

### **Highways Agency: Chapter 8 Traffic Signs Manual** (Part 2) - Operations: Para 06.3.2 The workforce and supervisory staff should wear high visibility

warning clothing at ALL TIMES when on site. Clothing shall comply with EN471:2003/EN20471:2013 Class 2 or 3 (Class 3 on motorways and other high speed roads) and shall comply with the requirements of paragraph 4.2.3(b) of the Standard. The colour of the clothing shall normally be fluorescent yellow or fluorescent orange-red complying with Table 2 of the Standard. The retroreflective material shall be to Class 2 as defined in Table 5 of the Standard. In addition, on motorways and other high speed roads, high visibility jackets or coveralls shall have full length sleeves meeting the requirement of paragraph 4.2.4 of EN471:2003/ EN20471:2013. This requirement may be varied to three-quarter-length sleeves where a risk assessment shows full-length sleeves would present increased risk due to the activity being undertaken. Staff should also wear high visibility trousers complying with **Class** 1 of EN471:2003/EN20471:2013 where the carrying of large items of equipment or other activities may at any time obscure the visibility of the high visibility jacket or vest.

On High Speed Roads: Good Working Practice (Section W7) Operatives who are engaged in activities on live traffic lanes should

**Highways Agency: Temporary Traffic Management** 

wear High Visibility Garments to EN471:2003/EN20471:2013 Class 3

Safety Standards Key

To aid selection, garments in this catalogue now

carry icons denoting the EN safety standards

to which they comply. \*From October 2013 all

newly Certificated High Visibility Garments must comply with the NEW Standard, EN ISO

## **Garment Classifications** minimum quantities of background and retroreflective materials to be used.

**Buying Guide** 

## Garment types are grouped into three classes based on the conspicuity provided, with the classes dictating the

**CLASS 3: Highest Protection Level: CLASS 1: Lowest Protection Level:** 

to a light source - such as vehicle headlights - creating a bright image that motorists are more likely to see from

### 50mm wide. Minimum background material 0.80M<sup>2</sup>. Minimum retroreflective material 0.20M<sup>2</sup>. A revised

Bands of retroreflective material shall not be less than

version of EN471 was published in March 2004. One of the major changes in this version is that horizontal reflective bands can now have an incline of  $\pm 20^{\circ}$ . **CLASS 2: Intermediate Protection Level:** 

### Bands of retroreflective material shall not be less than 50mm wide. Minimum background material 0.50M<sup>2</sup>.

Minimum retroreflective material 0.13M2. All Retroreflective Materials used in our High Visibility Clothing exceed

a distance. As a result, motorists and pedestrians have more time to react.

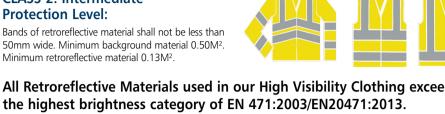
Minimum retroreflective material 0.10M<sup>2</sup>

retroreflective material shall not be less than 50mm wide. Minimum background material 0.14M<sup>2</sup>

Where enhanced visibility is an advantage, but

for minimal risk/off road purposes only. Bands of









3 classes of waterproofness and breathability EN471:2003/EN20471:2013 -

**Protection against Rain** 



20471:2013

**High Visibility Warning Clothing** 3 classes of protection



EN342 Protection against cold (Temperatures < 5°C)



GO/RT 3279:2008 Approved Garments for

**Railway Workers** 



# Flame **Resistant &** Retardant **Clothing**



## flame resistant and retardant clothing, we offer a complete solution for customers

**Buying Guide** 

requiring protection from heat, flame and dangerous substances: from identifying workplace hazards and the required protective clothing, to taking into account wearer comfort and value throughout the garment's life. Types of fabric used in Flame Resistant and

In partnership with specialist suppliers of

## **Retardant Clothing** Adequate protective clothing provides escape time, reduces burn injury, and increases the wearer's chances of survival.

Flame Retardant Standards

# into the fibre prior to spinning. Flame

garment's life.

**Anti-Static Standards** EN 1149

Flame Resistant Fabrics

Inherently flame resistant fabrics are

made of fibres with naturally flame

resistant properties (i.e. not through

effectiveness will not be reduced by

repeated washing or wear, ensuring

optimum protection throughout the

Flame retardant treated fabrics are

produced by applying a finish to a

fabric to reduce its flammability, or by

incorporating a flame retardant chemical

Flame Retardant Fabrics

chemical treatment). The fabric's

is washed out over time, the fabrics will only conform to heat and flame standards for a limited number of washes. Arc Essentially an electric arc is the spark that jumps between any gap created in an electrical system, such as the tiny spark

retardant treatment chemicals are

char and gases that briefly inhibit

'activated' by intense heat, producing

combustion. As this chemical treatment

that can occur when a light switch is flicked on or off (which is why you should not use any switches if you suspect a gas Water Penetration and Breathability

# EN 11611

**Tensile strength** Tear strength **Burst strength** Seam strength **Dimensional change** Requirements of leather Limited flame spread Molten droplets

EN 11612 As above plus:

Heat transfer (radiation) **Electrical resistance** 

**Heat resistance** Limited flame spread (A) Convective heat (B) Radiant heat (C) Molten aluminium splash (D) Molten iron splash (E) Contact heat (F)



EN 14116

Flame spread

**Short Life** 

**Chemical** 

Protective

**Clothing** 



### Anti-static clothing suppresses static charge, thereby preventing sparks, which might cause a fire or explosion.

(vertical resistance)

Protective clothing -

**Electrostatic properties** 

EN 1149-5 is a part of a larger system EN 1149 consists of the following parts: EN 1149-1: Test methods for the measurement of surface resistance

EN 1149-3: Test methods for the measurement of charge decay EN 1149-4: Garment test method (under development)

EN 1149-2: Test methods for the measurement

of the electrical resistance through a material

EN 1149-5: Performance requirements

## **Hi-Visibility** EN 471

EN 343

**Protection against** weather elements

**Reflective materials** 

used in Hi-Visibility clothing



# **Arc Standard**

EN 61482-2:2009 **Reflective materials** 

used in Hi-Visibility



# clothing





### preferred supply partners, we can provide site surveys to customers in order to evaluate their requirements and identify the most suitable solutions for their needs, taking into

consideration the following:

Food

Industry

**Clothing** 

CE marking, chemical protective equipment

(category III) must pass one or more of the garment "Type" tests, meet or exceed the minimum requirements for the materials'

physical and chemical properties, and be

correctly identified and labelled. In addition, the

products must be manufactured to a consistent

quality, and the manufacturer must either hold a

quality certificate such as ISO 9000, or be subject

to regular inspections by the notified laboratory. Along with our Nebosh trained staff, and our

Chemicals and Processes in the Workplace The Working Environment **Exposure Conditions** Comfort and Value Please contact your local branch for further details.

### Gives no protection against radioactive radiation. Limited protection EN 13034 Type 6 against liquid mist The antistatic treatment is only effective when relative humidity is > 25%

Norm

EN 14605

EN 14605

**EN ISO** 

13982-1

Type

83

EN 1073-2: 2002 Class

**&** 

Description

chemicals

aerosols

**Protection against** 

pressurised liquid

**Protection against** 

**Protection against** 

particulate chemicals

airborne solid

Category III

Type 3

Type 4

Type 5

Type

(Anti-Static)

Description

**Protection against** 

contamination

particulate radioactive

**Biological protection** 

Electrostatic discharge

if properly grounded

(Infective Agents)

Norm

EN 1073-2\*

EN 14126

EN 1149-1:

1995\*\*



Your guide to kitchen hygiene

potential hygiene risks and take appropriate action to reduce to a safe level.

The Food Safety (General Food Hygiene) Regulations 1995 requires that all employers identify

HACCP The Hazard Analysis and Critical Control Point (HACCP) system is internationally accepted as the system of

not under control;

approach to food safety based on the following 7 principles: Identify any hazards that must be prevented, eliminated or reduced: Identify the critical control points (CCPs) at the steps at which control is essential;

choice for food safety management. It is a preventative

\*Source: Food Standards Agency – "Catering Workers Hygiene Survey 2002"

- Establish critical limits at CCPs;
- Establish procedures to monitor the CCPs; Establish corrective actions to be taken if a CCP is

Establish procedures to verify whether the above

Establish documents and records to demonstrate the effective application of the above measures.

procedures are working effectively;

- The HACCP approach provides a systematic way of identifying food safety hazards and making sure that they are being controlled day-in, day-out. In short this involves the following steps:
- Minimise the likelihood of food poisoning bacteria contaminating meat and associated

• Plan what needs to be done to maintain food

safety and write it down;

Reduce the potential for growth of food poisoning bacteria on meat and associated products; · Minimise the potential for cross-contamination of

ready-to-eat foods by food poisoning bacteria on

meat during further processing or in the kitchen.

· Avoid physical and chemical contamination of meat;

Also available is a range of complementary personal protection which includes Cold Store Clothing to EN342, Thermal & Insulated Gloves to EN388 & EN511, Insulated Safety Footwear & Safety Wellingtons to EN20345 & Thermal Under- & Outerwear to mix & match for all

environmental conditions.

A comprehensive range of Colour Coded Catersafe Disposable Workwear is available, ideally suited to the food processing and catering industries, which includes hats, caps, coats, beard masks, aprons, sleeves, overshoes and gloves.

