



# High Visibility Clothing

EN 20471



This standard specifies the requirements for clothing intended to provide visibility to the wearer in any light condition. Under daylight conditions, fluorescent high visibility material is used, which provides a high level of contrast between the product and the environment in which it will be worn. High visibility clothing compliant with EN ISO 20471 must be worn in high risk situations.

This standard gives performance requirements for the colour, as well as the placement of the fluorescent and retroreflective materials. There are only three colours specified – fluorescent yellow, orange and red. There are also requirements for the colour fastness, dimensional stability, strength and the water vapour resistance of the fluorescent and any non-fluorescent materials. The retro-reflective material is tested for photometric performance as new and after a number of pre-treatments.

There are three classes which are related to risk assessment and are defined by the minimum areas of background fluorescent and retro-reflective material. Class 3 garments provide the highest level of visibility with Class 1 being the lowest.

These areas are defined according to the visible areas of fluorescent background material and bands of retro-reflective tape.

	CLASS 1	CLASS 2	CLASS 3
Reflective Tape	0.10m <sup>2</sup>	0.13m <sup>2</sup>	0.20m <sup>2</sup>
Fluorescent material	0.14m <sup>2</sup>	0.50m <sup>2</sup>	0.80m <sup>2</sup>

Read more on Clad Safety's Safety Standards Guide [here](#).