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METHODS FOR TESTING THE PROTECTIVE PROPERTIES OF PERSONAL BULLETPROOF PROTECTION

The article highlights the methods of testing the protective properties of the developed national standards DSTU 8782: 2018 “Personal protective equipment. Bulletproof vests. Classification. General specifications”, DSTU 8788: 2018 “Personal protective equipment. Bulletproof vests. Methods of control of protective properties” and DSTU 8835: 2019 “Personal protective equipment. Bulletproof helmets. Classification. General technical conditions” defining climatic conditions and ballistic test regimes to assess the quality of personal protective equipment from the point of view of monitoring its protective properties.

The article considers the peculiarities of testing the protective properties of such personal protective equipment as bulletproof vests and bulletproof helmets in accordance with their design features of climatic conditions of the test, requirements for personnel, testing equipment. In the article the authors give the classification of bulletproof vests and helmets adopted in Ukraine according to the stability of this personal protective equipment to the action of firearms bullets, as

well as special classes of bulletproof vests on their resistance to cold weapons and fragments of shells, mines or hand grenades. The means of destruction are characterized: calibers of cartridges, weight and construction of balls.

The article concentrates all stages of the test from the identification of samples of personal protective equipment provided for testing, to the features of the location of equipment during the tests of both bulletproof vests and helmets, the algorithm of testing, processing and fixing the results. Requirements are provided to demonstrate that the personal protective equipment complies with the declared class.

The authors conclude that ballistic tests in accordance with the requirements of the established national standards will create prerequisites for improving the safety and quality of personal protective equipment, such as bulletproof vests and bulletproof helmets, as well as create prerequisites for increasing the level of protection of consumers' interests of the above-mentioned products, improving the technical and economic performance of production of bulletproof vests and helmets in Ukraine.

Keywords: personal protective equipment, bulletproof vests, bulletproof helmets, means of defeat, protective structure, bulletproof.

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