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ANALYSIS OF CONSTRUCTIVE-COMPOSITE SOLUTIONS IN THE PRODUCTION OF SPECIAL CLOTHES FOR WORKERS OF MOTOR TRANSPORT ENTERPRISES

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Abstract

In this article, analysis of the assortment of special clothes produced in the enterprises of our country in the production of special clothes for workers of motor transport enterprises, according to the topography developed for the universal motorist profession, work on the structures, designs, and models of clothes, as well as according to the models developed according to the topography suggestions and recommendations are given.

The purpose of the article. The essence of the president's decision on the further development of the light industry, including the proposal of artistic and constructive solutions for the development of samples of special clothes, shoes, and headgear using local materials and dyes using new modern technologies.

Methods. Analysis of special clothing made of available protective materials; Researching the set of special clothing for car factory workers; Development of a design project of a special clothing set;

Results. Based on experimental studies of the dependence of the structural elements and parameters of men's shoulder clothes, recommendations were developed for determining the shoulder slope of the base structure, which guarantees a high-quality fit of the clothes.

Summary. To create a form of clothing with high ergonomic indicators and fashion direction, recommendations were developed for the additional values of the cuts of the basic construction of jackets and trousers. An information base of constructive and compositional solutions for special clothing sets aimed at the effective use of protective materials and prolonging the service life has been developed according to the topography of the wear of car factory workers.

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Keywords: gauze-knitting, clothing models, collared models, lining fabric, universal, material, artificial leather.

Introduction

Many brands in the world are increasing the number of business leaders who want to provide their employees with unique design work clothes that will introduce the company in the market, and the design of special clothes is offered, taking into account the wishes of customers. In this regard, also in our country "Line Zashiti", "Weldelec", "Prometheus", "Tashkent Flagma uz", "Hercules", "Spetsregion", "Soyuzspetsodejda", "Profstil", "PromSiz", "Radius", "Voyentorg". , "Progress" and many other brand products have their place not only in the domestic market but also in the foreign market. The competitiveness of special clothes is first of all the correct selection of materials, and then, taking into account the working conditions of workers, and choosing the optimal model analogues, it is necessary to correctly distribute the structural values of the clothes based on this model. Therefore, the service life of special clothes solving the problem of elongation, that is, following real operating conditions, clothing requires a scientifically based approach at the stage of creating a sketch of a clothing model based on the selection of protective material by determining the optimal dimensions of the contamination zone and protected area and the rational and appropriate use of materials.

The main part

In this article, the models of brand enterprises that have their place in our republic for the workers of automobile enterprises in our republic were analyzed, and the proposed clothing models were developed for motorist and universal workers based on the topography determined by the Toshavto enterprise, experimental research was carried out, and protective clothing was developed. at the stage of creating a constructive-decorative solution of clothing following real operating conditions, it is proposed to extend the service life of the product by determining the optimal dimensions of the contamination zone and protected area of special clothing. As a research object, the special clothes of motor workers and welders, which wear out quickly as a result of regular acid and oil spills in the conditions of the automobile industry, were chosen. Based on the analysis of the models of special clothes produced in enterprises with their brand in Tashkent, and the

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analysis of the topography of motorists and universal workers, it is possible to understand that special protective fabrics should be used appropriately when creating new work clothes.

Various materials are used in production: mixed-fibre fabrics, gauze-knitting, film, paper, metal mesh, rubber-coated material, artificial leather, etc.

A systematic analysis of the compositional solution of model structures was carried out to create special clothing bases. Assortments of special clothing for welders and mechanics (30 models) were analyzed. Also, special clothes (12 models) from the 2018-2019 catalogue of the "Liniya Zashiti" company were analyzed. The analysis was carried out according to the nominal characteristics of the structural and compositional construction of the models: the silhouette of the clothes, the division, the main details, the type of the collar, as well as the compositional and decorative solutions of the models: the type, shape and location of the pockets, the bottom of the sleeves and other elements design. In the analysis of the views of models and sketches of special clothing for workers, their types of constructive and compositional solutions were determined, and also the percentages of the various combinations examined were extracted.

From the above data, we have reached the following result, among the models of special clothes in the studied sample, the most common are products with the correct silhouette (80%). Half-cut silhouette products make up (20%). The most widely used sleeve is a sleeve with a bottom seam (60%), a sleeve with a seam on the front elbow (16.7%), and a sleeve with a seam on the bottom and top. Knitted sleeves (23.3%), and raglan sleeves were not observed. When the partitioning features of the main details were studied, vertical partitioning (3.3%), horizontal (40%), asymmetric (13.3%) and the highest partitioning properties were most common in mixed partitioning (43.4%). Diagram-1 It is clear from the table that, among the considered models, closed button and closed mullet accessories were analyzed in equal amounts (36.7%),

Models with an open zipper closure (10%), open button closure models (13.3%), and asymmetrical closure models (3.3%). Also, in the analysis of the shape and design of the collar during the research, models with a return collar (66.7% of the total number of models), stand-up collars (13.3%), turn-down collars (3.3%), one-piece collars (3.3%), and models without collars (6.7%) were found. organized. Below are the results of the analysis of the structural-compositional solutions of the models in the form of a diagram.

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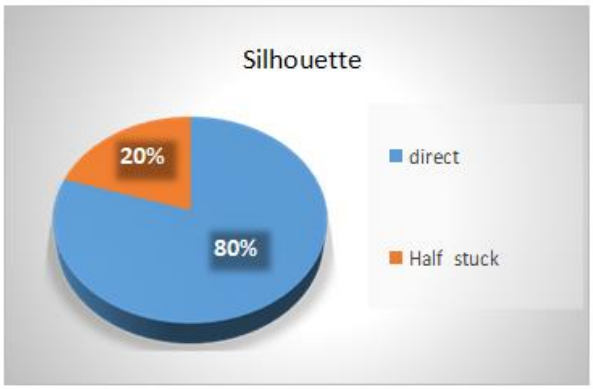
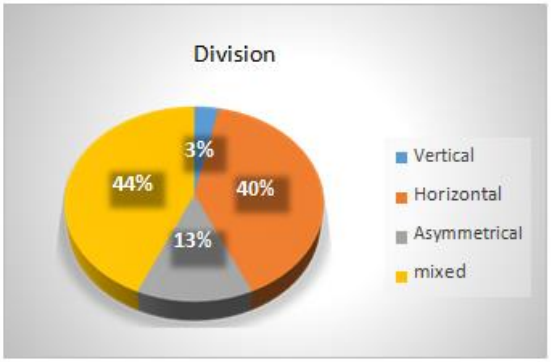
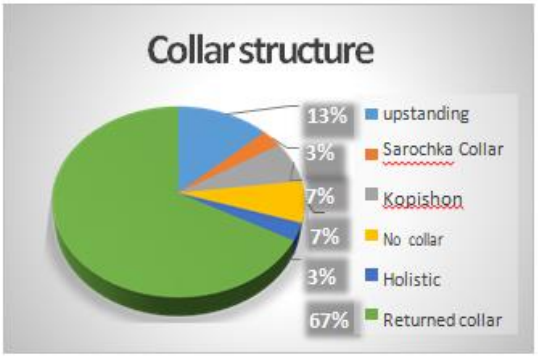
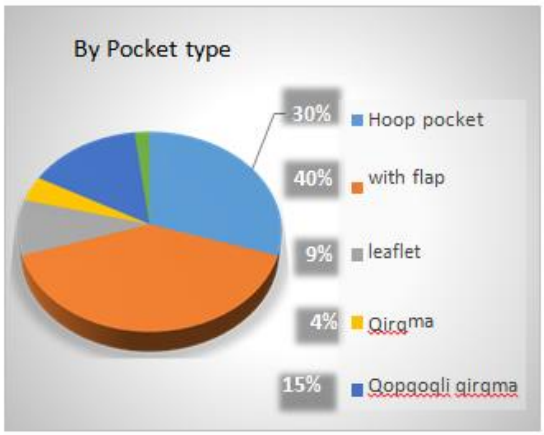


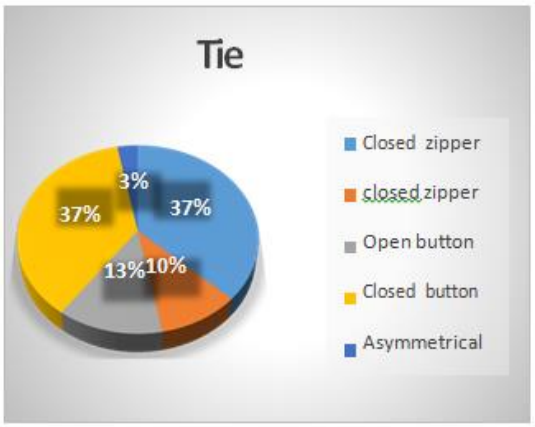
Diagrams 1-2.





Diagrams 3-4.





Diagrams 5-6.

During the creation of this article, "Line Zashiti", "Weldelec", "Prometheus", "Tashkent Flagma uz", "Hercules", "Spetsregion", "Soyuzspetsodejda", "Profstil", "PromSiz", "Radius", "Voyentorg", "Progress" and many other brand

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product designs were analyzed. Being in the "Liniya Zashiti" brand company, the colour, image, silhouette, colour range, accessories, shoes, and headgear design of the created models were studied. Jacket and pants set analysis:

– The jacket has a front closed patch, chest pocket with flap pocket (for mobile phone), additional material for air circulation in the armpit, cuffs at the end of the sleeves, and cuffs in the elbow area.

– Front pockets with large pockets (for mobile phones), two-layer material in the knee area (for eroding areas).

Figure 1. A product of the "Liniya Zashiti" brand.

"Hercules" brand jacket and pants set analysis:

– The front of the back has a closed button, the sleeve end has a cuff button, the breast pocket has a hidden zipper and double-layered decorative seams are used.

– There is a gulf closure on the front part and two side pockets. A signal belt is used in the leg part.

Figure 2. "Herkules" brand product.

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Cerva brand jacket pants analysis:

– Work uniform with convenient front fastening. There are patch pockets with flaps on the chest, cuffs are attached to the hem and sleeve ends, the elbow part is made of decorative material with wheels that provide movement, and the front yoke, sleeves, and side pockets are edged.

– The trousers have a gusset on the front, two side pockets, and one side pocket with a flap. The knee part is decorative, and made of two layers of material (to increase resistance to decay).

Figure 3. "Cerva" brand product.

Conducting brand research lays the foundation for the creation of model samples with a new modern design. What today's workers' special clothing looks like, what materials are used, and what the range of special clothing looks like with trendy colours, accessories and many other conveniences is slowly taking shape. The study of the appearance and quality of the special clothing in the work process was carried out after the specified period using various methods, including the identification of its contamination areas under the influence of various harmful production factors, their distribution on the surface of the clothing, and the degree of damage to the surface of these areas. To carry out this work, various harmful production factors, their effects, and the frequency of occurrence in different parts of special clothing, on different surfaces were determined. To determine the frequent occurrence of such damaged places in work clothes, worn-out special

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clothes of the workers of the "Toshavtotamirkhizmat" service centre were studied. A visual inspection of 250 special clothes, which became unsuitable for the work process, made it possible to identify the most common areas of work clothes with the most harmful risk factors. At the same time, the dirtiest areas are the middle of the front of the jacket (abdominal cavity and folds), the ends of the arms, the front hem to the chest, the top of the pants, the front of the pants, the knee and the leg.

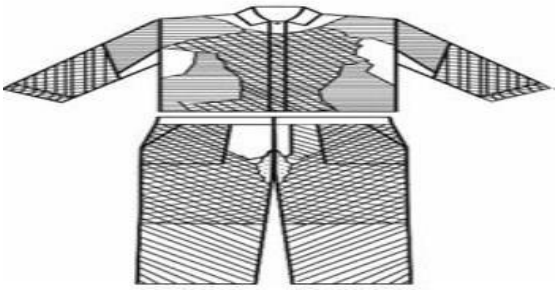

Figure 4. A set of clothes in the work process of a plumber-motorist.

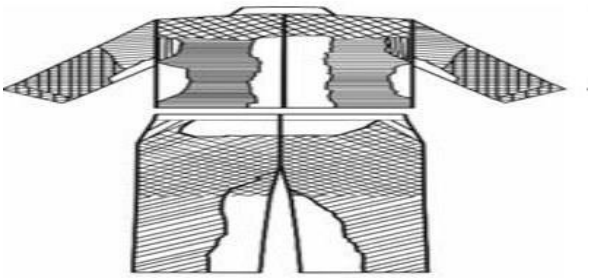

Figure 5. Plumber-universal work clothes set.

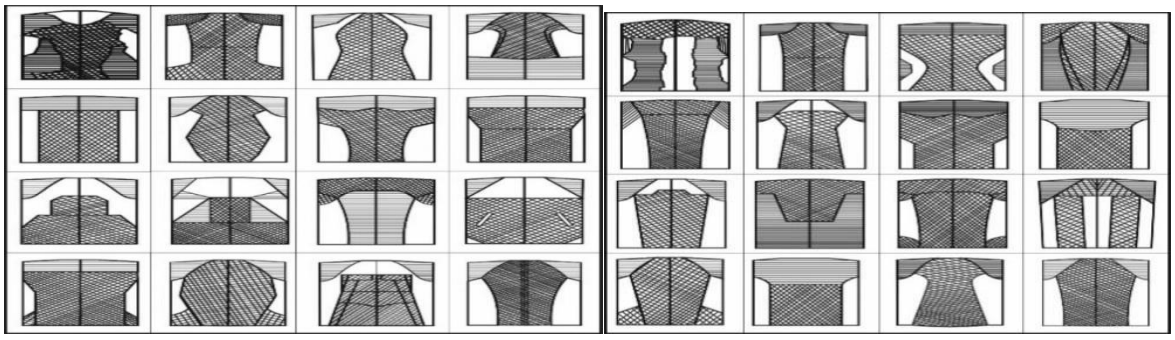

Figure 6. Construction-compositional solutions of the plumber-motor worker's shoulder uniform

Conclusion

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In conclusion, today's workwear is getting more and more sophisticated, and this is reflected in our analysis of what it looks like, what materials are used, trending colours, accessories and many other conveniences. we can see that it is slowly formed. Along with scientific and technical progress in modern industrial enterprises, along with changes in the field of production, the task of ensuring the safety of people in production, including the design of special clothing to protect them from the harmful effects of the production environment, has previously been driving The purposeful improvement of the types and quality of special clothes, matching the needs of customer organizations in modern management conditions is of particular importance. Competitive work clothes must be made of protective materials and have high levels of reliability, and physiological and hygienic indicators as one of the most important elements of protection against dangerous, harmful production factors.

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