



IN ORGANIZING TRAFFIC AUTOMOBILE LINES

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ABSTRACT

On the new day of Uzbekistan, it supports highways. This in turn requires large expenditures of material, labor, time and traffic safety.

KEYWORDS: Automotive, roads, lines, composite materials, bitumen, nitroenamel, thermoplastic.

Introduction. Numerous scientific studies have been conducted by scientists around the world to improve the properties, structure, composition, physical, chemical, mechanical, operational and other properties of composite materials. Leading scientists of the world on the widespread use of composite materials in materials science, including German and American researchers U.Bryaggman, S.Hogmark, O.Vingsbo and others have conducted research to improve the effectiveness of tribotechnical and adhesion strength of materials. As a result of the research, technology was developed to increase the internal structure, structural flexibility and operational reliability of composite materials. Scientists from Japan, China and Turkey Saito Karumi, Mori Aiji, Takagi Hisasshi, Kaneke Seiji, Z. Holken and others have developed methods for managing structures by optimizing the composition of composite materials. The research takes into account the working bodies of machine mechanisms and their operational properties.

CIS countries, including Russian and Belarusian scientists N.S.Enikonov, G.N.Bartenev, A.A.Berlin, V.A.Belyy, A.I.Sviridyonok, V.A.Struk, V.A.Lyapo and others have improved the antifriction-corrosion resistance properties of metal-polymer systems of mechanical properties and supermolecular structures.

Today in the development of material science from Uzbek scientists academicians SS Negmatov, MA Askarov, S.Sh.Rashidova, Ph.D. professors A.Ibodullaev, Z.A.Tadjikhodjaev, A.V.Umarov, A.A.Riskulov and academician RGMakhkamov on optimization of surface structures, management of parameters of technological irregularities, Professor U.A.Ziyamukhamedova on the specifics of structural adaptation



in the interaction of composite coatings, Professor N.S.Abed on the use and physical modification of composite materials, Professor A.Djuraev on optimization of the design of working bodies of technological equipment, composite polymer materials and their Professor A.B.Djumabaev, on the evaluation of the effectiveness of the work of production pneumotransporters made of composite materials professor X.T.Akhmedkhodjaevs carried out scientific research work.

Discussion. There are scientific and practical aspects of this work that do not pay enough attention to the rational use of local materials and the discovery of their new properties. Insufficient attention is paid to the structural adaptation of friction interactions of composite materials with car tires and the rational use of local raw materials and waste materials in the development of new materials and technologies in this area.

The creation of effective types of coatings based on composite materials remains a pressing issue.

The experience of using horizontal lanes on highways in developed countries shows that the use of lanes reduces road traffic accidents by up to 30%, depending on road conditions. However, the importance of the lines depends in many ways on climatic conditions and deteriorates sharply under conditions of precipitation, snow, and so on.

Lines, inscriptions and other markings on the carriageway, roadside, elements of road constructions and road conditions, setting traffic rules, indicating the dimensions of road structures or indicating the direction of the road shall be made of paints, thermoplastics, cold plastics, polymers or other materials.

Road lines have a special place among the technical means in the organization of traffic.

The main differences between road signs, traffic lights, road signs and lines on guide devices are: road lines are almost always in the field of view of drivers, allowing them to quickly perceive and react to information;

Road lanes allow with high accuracy to determine the limits of permitted or prohibited maneuvers, as well as the limits of both driver and pedestrian traffic.



Today, the public roads of the country are paved with two different materials. Because their composition is related to imported materials, the cost of these road lines is expensive and the technology is complex.

Expected results and importance of materials with modern new composition, low cost, low manpower, high service life stability:

- the possibility of creating new composite materials using local raw materials and industrial waste will be explored.

- Develops modern methods and tools for experimental research of engineering materials working on friction with car tires;

- the effect of the amount and nature of fillers on the deformation properties of composite materials and the formation of structures is determined;

- Technologist for production and application of new composite materials from import-substituting local raw materials and waste materials;

- The method of control of structural and technological factors for the production of new composite materials that reflect the intended performance in the friction interaction with the car tire is determined.;

- Integration, research and technology between higher education institutions and manufacturing enterprises will be developed.

- Feasibility study in the development and application of optimal granulometric compositions as local mineral fillers and fillers for industrial production;

- their reliability is ensured by mathematical modeling and processing of research results.

Conclusion. Nowadays, we are required to use materials that have several advantages, such as new composition, low cost, low manpower, high service life, and are less harmful to the environment.

The main purpose of the creation of a new composite material for road markings and the study of operational reliability:

- the possibility of creating new composite materials using local raw materials and industrial waste will be explored;

- Modern methods and tools for experimental research of frictional impacts on automotive tires will be developed;

- the effect of the amount and nature of fillers on the deformation properties of



composite materials and the formation of structures is determined;

- Imported materials will be used for existing roads, new composite material will be created from import-substituting local materials and waste materials;

- The method of control of structural and technological factors for the production of new composite materials that reflect the intended performance in the friction interaction with the car tire is determined.;

- Feasibility study in the development and application of optimal granulometric compositions as local mineral fillers and fillers for industrial production;

- their reliability is ensured by mathematical modeling and processing of research results.

Roads drawn on highways will help reduce the number of road traffic accidents (CTs) by up to 30%. The organization of traffic is an important tool for regulating traffic flows on highways, which allows to increase the speed of vehicles and road congestion.

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