

## Abstract

The subject of the work concerned the interior of motor vehicles, in particular upholstery fabric padded with septic agent. The idea of the study fully refers to the physically existing problem that was identified in the area of the interior of special and civilian vehicles, concerns the interior of their interior. The whole research follows current trends in the automotive world and scientifically solves the problem of interior hygiene of the vehicle. The research activities presented will help minimize vehicle interior septicemia, leading to improved user safety.

**The purpose** of the work is to manufacture car upholstery from septic material, for use in special services and more.

**The scope** of work includes: spectroscopic - determining the composition of the material, microbiological - concerning the interior of motor vehicles and mechanical tests - on upholstery materials selected for a number of tests. The next stage was chemical research on sweating in the conditions of car use. The last step is to conduct field tests (operational) on designed upholstery built in cars. All was made in accordance with accepted procedures and relevant standards.

On the basis of the examinations and analyzes carried out, the following was found:

- **Welded upholstery fabric improves vehicle interior septicemia. Biological resistance of septic upholstery was found more than four times greater than that of the raw material.** The use of septic material in motor vehicle interiors is a guarantee of improving the safety of its travelers.
- **The developed technology for increasing the level of interior safety in motor vehicles is fully innovative, with the possibility of direct implementation.** This method is of full application character, intended mainly for all kinds of special units, including: Border Guards, Fire Brigades, Ambulances, etc. application of this solution.