



TECHNICAL AND ECOLOGICAL PROPERTIES OF SETAPRET PFF USED IN THE LIGHT INDUSTRY

Mamadaliyeva Zuxra Yigitaliyevna

PhD Researcher, Namangan Institute of Engineering and Technology

Email: mamadaliyevazuxra0@gmail.com

Tel: (+99888) 2122610

Nabidjanova Nargiza Nasimjanovna

Doctor of Technical Sciences, Professor, Namangan Institute of
Engineering and Technology Department of Light Industry Engineering

Email: nabidjanova74@mail.ru | Tel: (+99893) 6710114

Abstract:

This article analyzes the ecological and technical aspects of the Setapret PFF substance in modern textile industry. Setapret PFF is a fluorocarbon-free water-repellent finishing agent that meets international environmental standards such as OEKO-TEX® Standard 100, ZDHC, and Bluesign. The study covers its application areas, technological parameters, and environmental safety.

Keywords: Setapret PFF, water-repellent finish, textile industry, environmental safety, OEKO-TEX, ZDHC, fluorocarbon-free substance.

Introduction

In modern textile industry, the use of environmentally safe and highly effective chemical agents is of great importance. In this regard, Setapret PFF has a unique position among fluorocarbon-free water-repellent agents. It does not contain PFC (perfluorocarbon) compounds and is considered an eco-friendly alternative that does not harm the environment.

Description of Setapret PFF Setapret PFF is a fluorocarbon-free water-repellent finishing agent developed by SETAŞ Chemical. It provides high-level water resistance and complies with international ecological standards such as OEKO-



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TEX® Standard 100, ZDHC, and Bluesign. Moreover, it maintains the breathability of the fabric and does not affect its hand feel during use.

Application Areas Setapret PFF is widely used in various textile products, including:

- Sportswear
- Children's clothing
- Medical garments (e.g., surgical gowns)
- Home textiles (e.g., mattresses, pillows, tablecloths)

Technical Specifications The recommended parameters for applying Setapret PFF to fabrics are as follows:

- Usage concentration: 30–80 g/L (Setapret PFF) + 15–25 g/L (Setacross BC)
- Temperature: 150–180 °C
- Fixation time: 1–3 minutes
- Suitable fabric types: cotton, nylon, polyester

Conclusion

Setapret PFF is an environmentally safe, highly efficient water-repellent agent that is widely used in the textile industry. Its wash durability, ability to preserve fabric structure, and compliance with ecological standards distinguish it from other chemical products.

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