

Код УГПС – 29.00.00

ТЕХНОЛОГИИ ЛЕГКОЙ ПРОМЫШЛЕННОСТИ

Тема 4. Промышленные технологии и их влияние

### Use of modern technologies in Russia

#### 1. READING Protective Properties of Modern Clothing: Safety and Comfort

- What type of clothing are people wearing in pictures A and B? Which clothing is more suitable for the winter activities and why?
- Read the text about properties of modern clothing.



A



B

### Protective Properties of Modern Clothing: Safety and Comfort

Modern clothing is designed with advanced technologies to provide protection to the wearer. These protective properties give safety and comfort in various situations. One important feature of modern clothing is its ability to resist fire. Fire-resistant materials are used to make clothing that can withstand high temperatures and prevent burns. This is especially important for people working in industries where there is a risk of fire, such as firefighters or industrial workers.

Another protective property of modern clothing is its ability to push away water. Water-resistant fabrics are used to make jackets, pants, and shoes that keep the wearer dry in rainy or wet conditions. This is helpful for outdoor activities like hiking or working in construction sites. Modern clothing also offers protection against dangerous UV rays from the sun. Special fabrics with built-in UV protection are used to make hats, shirts, and other types of clothing that protect the skin from the damaging effects of the sun. This is important in preventing

**protection** – защита

**advanced technologies** –

передовые технологии

**protective properties** – защитные свойства

**fire-resistant** – огнестойкий

**withstand** – выдерживать

**water-resistant** – водостойкий

**fabrics** – ткани

**UV rays** – ультрафиолетовые лучи

**skin cancer** – рак кожи

**breathable** – дышащий

sunburns and reducing the risk of skin cancer.

Also, modern clothing is designed to be breathable. This means that it allows air to move and helps to keep the body cool and dry, even during physical activities or in hot weather. This feature is particularly useful for athletes or people who engage in outdoor activities.

In conclusion, modern clothing has many specific features which provide for the safety and comfort of the wearer in different situations.

c) Match the properties of the modern clothing to their functions:

Properties of clothing	Functions
1. water-resistance	a. to protect the skin from the damaging effects of the sun
2. fire-resistance	b. to push away water
3. breath	c. to allow air to move and help to keep the body cool and dry
4. UV protection	d. to withstand high temperatures and prevent burns

d) Discuss in pairs:

- What are the advantages of using advanced technologies in modern clothing? Are there any disadvantages?
- Are fabric properties described in the text applicable only to clothing? If not, what other types of goods can be produced using such technologies?

SKILLS profile case

Project Task. *Protective properties of fabric in modern products.*

*Find information about the goods produced in your region (clothing, sport or tourist products, other types of goods) using modern fabric and present it to the class:*

1. Briefly describe the industry and / or company that produces these goods.
2. Describe where the products are used, their functions.
3. Find information about protective properties of the products.
4. Make a label sketch (эскиз этикетки) for the chosen product describing protective properties.
5. Present your findings to the class.

## 2 SPEAKING

- In pairs answer the following questions:
- What are the advantages of a green house (an eco-house)?
- Where can you find green houses?
- What problems can an eco-house solve?
- What kind of plants can be found in eco-houses?



## 3 PROJECT

### Option I.

**Search for some information about green eco-houses in your country and in the world. Choose one and present information about it to the class.**

Remember to mention:

- Information about a place (city);
- Photo of the building or parts of it (connected with ecology)
- Would you like to live there?
- What impressed you the most, what you didn't like, why?

### Option II.

**Draw your perfect eco-house and present it to the class.**

Remember to mention:

- Information about a place (city) where your perfect eco-house is located;
- Information about interesting parts of your building (connected with ecology)
- Would you like to live there?
- What impressed you the most, why?