

MEDICAL BANDAGE MADE OF HYDROGELS CROSSLINKED BY RADIATION



General view of medical bandage



Elastic deformation of medical bandage before rupture reaches 50–100%

Stage of Development. Suggestion for Commercialization

IRL6, TRL6

The product and technology are completely ready for launching the production based on prepared business plan. Investments are needed to paying state certification fees and for building a pilot manufacturing line

Areas of Application

The bandage is used for treatment of wounds, burns, and skin diseases protecting them from mechanical stress and infections, cooling, anaesthetizing, disinfecting, creating and maintaining a wet environment, infusing pharmacological agents, and absorbing wound discharge

Specification

The medical bandage is a sterile plate of soft elastic nontoxic material having a thickness of 2–4 mm and different sizes ranging from 5×5 to 20×30 cm. It is able to absorb physiological discharge from wounds up to 150% of its initial weight

Advantages

The medical bandage does not cause any irritation or allergic reactions, does not stick to the wound, which enables its painless replacement. Transparency of bandage enables to observe the wound condition without its removal. The bandage can contain a variety of water-soluble drugs and infuse them into the wound. The medical bandages of this type are not produced in Ukraine. Manufacturing medical dressings based on the proposed technology provides ~100% profitability insofar as its price is 2–3 times cheaper than the imported counterparts

IPR Protection

IPR1, IPR3

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