er interest of Polish society and Polish specialists in modern and innovative medical materials and products. Another reason are the possibilities of financing projects connected with biomedical technologies offered by the European Union. Macroeconomic trends that are currently visible in the Polish medical market, presented in the article - an increasing number of private hospitals and clinics, an increasing number of patients in surgical wards, etc. - also give a basis for promising predictions for the future for medical products containing and made of alginate fibres. However, in order to get a full view of this market it would be recommended to perform another research in society, this time among consumers, to check the demand for such products in households and among veterinaries to estimate the possible demand for wound dressings for pets.

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INSTITUTE OF BIOPOLYMERS AND CHEMICAL FIBRES

LABORATORY OF METROLOGY

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The **Laboratory** is active in testing fibres, yarns, textiles and medical products. The usability and physico-mechanical properties of textiles and medical products are tested in accordance with European EN, International ISO and Polish PN standards.





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Tests within the accreditation procedure:

■ linear density of fibres and yarns, ■ mass per unit area using small samples, ■ elasticity of yarns, ■ breaking force and elongation of fibres, yarns and medical products, ■ loop tenacity of fibres and yarns, ■ bending length and specific flexural rigidity of textile and medical products

Other tests:

- **for fibres:** diameter of fibres, staple length and its distribution of fibres, linear shrinkage of fibres, elasticity and initial modulus of drawn fibres, crimp index, tenacity
- **for yarn: ■** yarn twist, **■** contractility of multifilament yarns, **■** tenacity,
- for textiles: mass per unit area using small samples, thickness
- **for films:** thickness-mechanical scanning method, mechanical properties under static tension
- for medical products: determination of the compressive strength of skull bones, determination of breaking strength and elongation at break, suture retention strength of medical products, perforation strength and dislocation at perforation

The Laboratory of Metrology carries out analyses for:

■ research and development work, ■ consultancy and expertise

Main equipment:

■ Instron tensile testing machines, ■ electrical capacitance tester for the determination of linear density unevenness - Uster type C, ■ lanameter