

## References

1. Akbar-Khanzadeh F, Bisesi MS, Rivas RD. Comfort of personal protective equipment. *Appl. Ergon.* 1995; 26(3): 195-198.
2. Irzmańska E. Footwear use at workplace and recommendations for the improvement of its functionality and hygiene. *AUTEX* 2014; 14(2): 89–94.
3. Hole LG. Sweat health disposal from footwear and hygiene of foot skin. *J. Soc. Cosmet. Chem.* 1973; 24: 43-63.
4. Irzmańska E, Brochocka A, Majchrzycka K. Textile Composite Materials with Bioactive Melt-Blown Nonwovens for Protective Footwear. *Fibres & Textiles in Eastern Europe* 2012; 20, 6A(95): 119-125.
5. Irzmańska E. Case study of the impact of toecap type on the microclimate in protective footwear. *Int. J. Ind. Ergonom.* 2014; 44(5): 706–714.
6. Irzmańska E. The impact of different types of textile liners used in protective footwear on the subjective sensations of firefighters. *Appl. Ergon.* 2015; 47: 34 – 42.
7. Irzmańska E and Brochocka A. Influence of the Physical and Chemical Properties of Composite Insoles on the Microclimate in Protective Footwear. *Fibres & Textiles in Eastern Europe* 2014; 22, 5(107): 89-95.
8. Kabiri K, Omidian H, Zohuriaan – Mehr MJ, Doroudiani S. Superabsorbent hydrogel composites and nanocomposites: a review. *Polym Composite* 2011; 32(2): 277-289.
9. Glados S, Maciejewski M. Hydrogels. Syntheses and application. *Wiadomości chemiczne* 1998; 52: 101-123.
10. Bereś J, Kołędzowska M. Superabsorbents. *Chemik* 1992; 3: 59-61.
11. Bartkowiak G, Frydrych I. Superabsorbents and their medical applications, p. 505-547. In: Bartels VT. *Handbook of medical textiles*. Ed. WP, The Textile Institute, 2011.
12. Zohuriaan-Mehr MJ, Kabiri K. Superabsorbent polymer materials: a review. *Iran Polym Mat* 2008; 17(6): 451-477.
13. Kokabi M, Sirousazar M, Muhammad Hassan Z. PVA-clay hydrogels for wound dressing. *Eur. Polym. J.* 2007; 43: 773.
14. Dutkiewicz JK, Goerg-Wood KA, Guay DF, Kalmon MF, Kressner BE, Li Y, Qin J, Szymonski KA, Tanzer RW, Wallajapet PRR. Absorbent structure and method. Patent Pat. 6,329,565 B1, USA, 2001.
15. Dutkiewicz J, Erspamer J, Boehmer B, Wahal S, Hood R. Structure a hautes performances. Patent WO2000041882 A1, France, 2000.
16. Bartkowiak G. Liquid Sorption by Nonwovens Containing Superabsorbent Fibres. *Fibres & Textiles in Eastern Europe* 2006; 14, 1(55): 57-61.
17. Bartkowiak G. Influence of Undergarment Structure on the Parameters of the Microclimate under Hermetic Protective Clothing. *Fibres & Textiles in Eastern Europe* 2010; 18, 4(81): 82-86.
18. Wawro D, Ciechańska D, Stęplewski W, Bodek A. Chitosan Microfibrils: Preparation, Selected Properties and Application. *Fibres & Textiles in Eastern Europe* 2006; 14(57): 97-101.

19. Stęplewski W, Wawro D, Niekraszewicz A, Ciechańska D. Research into the Process of Manufacturing Alginate-Chitosan Fibres. *Fibres & Textiles in Eastern Europe* 2006; 14(58): 25-31.
20. Wawro D, Struszczyk H, Ciechańska D, Bodek A. Investigation of the Process for Obtaining Microfibrils from Natural Polymers. *Fibres & Textiles in Eastern Europe* 2002; 10: 23-26.
21. Das A, Kothari VK, Makhija S, Avyaya K. Development of High-Absorbent Light-Weight Sanitary Napkin. *J. Appl. Pol. Sci.* 2008; 107: 1466–1470.
22. Nowicka C. Composite Nonwovens: The Bonding Durability of Sorbent Particles. *Fibres & Textiles in Eastern Europe* 2003; 11(42): 46-49.
24. Nowicka C. *Porównawcze badania zdolności adsorpcji węgla aktywnych i włókien kompozytowych PP melt-blown/węgiel aktywny*. Prace Instytutu Włókiennictwa, Łódź, Rocznik XLVI, 1994-1995; 59-67.
25. Bartkowiak G, Szucht E. Liquid Sorption in Two-Layer Packets of Structurally Differentiated Knitted Materials. *Fibres & Textiles in Eastern Europe* 2002; 1(55): 57-61.
26. Sadikoglu TG. Effect on Comfort Properties of Using Superabsorbent Fibres in Nonwoven Interlinings. *Fibres & Textiles in Eastern Europe* 2005; 13(51): 54-57.
27. Irzmańska E, Dutkiewicz J, Irzmański R. New approach to assessing comfort of use of protective footwear with a textile liner and its impact on foot physiology. *Text. Res. J.* 2014; 84(7): 728–738. Defraeye T, Blocken B, Koninckx E, Hespel P and Carmeliet J. CFD Analysis of Drag and Convective Heat Transfer of Individual Body Segments for Different Cyclist Positions. *J Biomech* 2011; 44(9): 1695-170.