References

- 1. ISO 10318-1:2015 Geosynthetics Part 1: Terms and definitions.
- 2. Iryo T, Rowe RK. On the Hydraulic Behavior of Unsaturated Nonwoven Geotextiles. *Geotextiles and Geomembranes* 2003; 21:381–404.
- 3. Palmeira EM, Trejos Galvis HL. Evaluation of Predictions of Nonwoven Geotextile Pore Size Distribution under Confinement. *Geosynthetics International* 2018; 25(2):230–241.
- 4. Raisinghani DV, Vismanadham BVS. Evaluation of Permeability Characteristics of a Geosynthetic-Reinforced Soil through Laboratory Tests. *Geotextiles and Geomembranes* 2010; 28:579–588.
- 5. Cazzuffi D, Moraci N, Mandaglio MC, Ielo D. *Evolution in design of geotextile filters*. *Proceedings of the EuroGeo* 6; 2016 September 25–28; Ljubljana, Slovenia. p. 40–63.
- 6. Giroud, JP. Granular filters and geotextile filters. Proceedings of the GeoFilters '96; 1996 May 29–31; Montreal, Canada. p. 565–680.
- 7. Heibaum M. Rethinking geotextile filter design. *Proceedings of the 10th International Conference on Geosynthetics*; 2014 September 21–25; Berlin, Germany. p. 8.
- 8. ISO 12956:2010 Geotextiles and geotextile-related products Determination of the characteristic opening size.
- 9. Junqueira FF, Silva ARL, Palmeira EM. Performance of Drainage Systems Incorporating Geosynthetics and their Effect on Leachate Properties. *Geotextiles and Geomembranes* 2006; 24: 311–324.
- 10. Koda E, Szymański A, Wolski W. Behavior of Geodrains in Organic Subsoil. *Proceedings of the 12th International Conference on Soil Mechanics and Foundation*; 1989 August 13–18; Rio je Janeiro, Brazil. p.1377–1380.
- 11. Lee I-M, Kim J-H, Reddi LN. Clogging Phenomena of the Residual Soil-Geotextile Filter System. *Geotechnical Testing Journal* 2002; 25(4):1–12.
- 12. Lejcuś K, Dąbrowska J, Grzybowska-Pietras J, Garlikowski D, Lejcuś I, Pawłowski A, Śpitalniak M. Optimisation of Operational Parameters for Nonwoven Sheaths of Water Absorbing Geocomposites in Unsaturated Soil Conditions. *FIBRES & TEXTILES in Eastern Europe* 2016; 24, 3(117): 110-116. DOI: 10.5604/12303666.1196620.
- 13. Miszkowska A, Lenart S, Koda E. Changes of Permeability of Nonwoven Geotextiles due to Clogging and Cyclic Water Flow in Laboratory Conditions. *Water* 2017; 9(9):660.
- 14. Moraci N. Geotextile Filter: Design, Characterization and Factors Affecting Clogging and Blinding Limit States. *Proceedings of the 9th International Conference on Geosynthetics*; 2010 May 23–27; Guaruja, Brazil. p. 413–435.
- 15. Veylon G, Stoltz G, Meriaux P, Faure Y-H, Touze-Foltz N. Performance of geotextile filters after 18 years' service in drainage trenches. *Geotextiles and Geomembranes* 2016; 44:515–533.
- 16. ASTM D 5101. Standard Test Method for Measuring the Filtration Compatibility of Soil-Geotextile Systems. ASTM International, USA.

- 17. Calhoun C. Development of Design Criteria and Acceptance Specifications for Plastic Filter Cloths. *Technical Report* S-72-7 U.S. Army Corps of Engineers, Waterways Experiment Station, USA. 1972; p. 83.
- 18. Wu Ch-S, Hong Y-S, Yan Y-W, Chang B-S. Soil-Nonwoven Geotextile Filtration Behavior under Contact with Drainage Materials. *Geotextiles and Geomembranes* 2006; 24:1–10.
- 19. Fannin RJ, Vaid YP, Shi YC. A Critical Evaluation of the Gradient Ratio Test. *Geotechnical Testing Journal* 1994; 17:35–42.
- 20. Haliburton TA, Wood PD. Evaluation of the U.S. Army Corps of Engineers Gradient Ratio Test for Geotextile Performance. *Proceedings of the 2nd International Conference On Geotextiles*; 1982 August 1–6; Las Vegas, USA. p. 97–101.
- 21. Khan MW, Dawson AR, Marshall AM. A Dynamic Gradient Ratio Test Apparatus. *Geotextiles and Geomembranes* 2018; 46:782–789.
- 22. Lafleur J, Eichenauer T, Werner G. Geotextile Filter Retention Criteria for Well Graded Cohesionless Soils. *Proceedings of the GeoFilters '96*; 1996 May 29–31; Montreal, Canada. p. 429–438.
- 23. Bouthot M, Vermeersch OG, Blond E, Mlynarek J. The Number of Constrictions Concept as a Mean to Predict the Filtration Behavior of Nonwoven Geotextile Filters. *Proceedings of the 7th International Conference on Geosynthetics*; 2002 September 22–27; Nice, France. p. 1061–1064.
- 24. ASTM D 7178. Standard Practise for Determining the Number of Constrictions "m" of Non-Woven Geotextiles as a Complementary Filtration Property. ASTM International, USA.
- 25. Pawluk K, Wrzesiński G, Lendo-Siwicka M. Strength and Numerical Analysis in the Design of Permeable Reactive Barriers. *Proceedings of the World Multidisciplinary Civil Engineering-Architecture-Urban Planning Symposium* (WMCAUS); 2017 June 12–16; Prague, Czech Republic. Book Series: IOP Conference Series-Materials Science and Engineering, Vol. 245, Article Number: UNSP 052017.
- 26. ISO 14688-2:2004. Geotechnical and Testing Identification and Classification of Soil Part 2: Principles for A Classification.
- 27. Kenney TC, Lau D. Internal Stability of Granular Filters. *Canadian Geotechnical Journal* 1985; 22:215–225.
- 28. Wojtasik D. Evaluation of Nonwoven Geotextile as a Filtration Layer For Internally Unstable Soils. *Annals of Warsaw University of Life Sciences* SGGW, Land Reclamation. 2008; 40:107–114.
- 29. Palmeira EM, Fannin RJ, Vaid YP. A Study on the Behavior of Soil-Geotextile Systems in Filtration Tests. *Canadian Geotechnical Journal* 1996; 33:899–912.
- 30. Fannin RJ, Palmeira EM, Srikongsri A, Gardoni MG. Interpretation of the Gradient Ratio Test for Geotextile Filtration Design. *Proceedings of the 1st Pan American Geosynthetics Conference & Exhibition*; 2008 March 2-5; Cancun, Mexico. p.1699–1707.
- 31. Kutay ME, Aydilek AH. Filtration Performance of Two-Layer Geotextile Systems. *Geotechnical Testing Journal* 2005; 28, No. 1:1–13.

- 32. Miszkowska A, Krzywosz Z. Evaluation of soil-geotextile filtration behaviour using the gradient ratio test. *Proceedings of the 25th International PhD Students Conference* (MendelNet 2018); 2018 November 07–08; Brno, Czech Republic. p. 440–445.
- 33. Sabiri N-E, Caylet A, Montillet A, Le Coq L, Durkheim Y. Performance of nonwoven geotextiles on soil drainage and filtration. *European Journal of Environmental and Civil Engineering*, 2017; 1–19.
- 34. Wu Ch-S, Hong Y-S, Yan Y-W, Chang B-S. Soil-nonwoven geotextile filtration behavior under contact with drainage materials. *Geotextiles and Geomembranes*. 2006; 24: 1–10.
- 35. Lafleur, J. A modified gradient ratio test for the filtration performance of geotextiles. Proceedings of the *6th European Geosynthetics Congress*; 2016 September 25–28; Ljubljana, Slovenia. p. 697–702.