Textiles — Standard atmospheres for conditioning and testing

1 SCOPE AND FIELD OF APPLICATION

This International Standard defines the characteristics and use of standard atmospheres for conditioning and for determining the physical and mechanical proporties of textiles.

2 BASIC DEFINITIONS

2.1 relative humidity: The ratio of the actual pressure of the water vapour in the atmosphere to the seturation vapour pressure at the same temperature. The ratio is usually expressed as a percentage.

2.2 standard temperate atmosphere: An atmosphere which has a relative humidity of 55 % and a temperature of 20 °C.

2.2.1 standard temperate atmosphere for testing: An atmosphere which has a relative humidity of 65 ± 2 % and a temperature of 20 ± 2 °C.

2.3 standard tropical atmosphere: An atmosphere which has a relative humidity of 65 % and a temperature of 27 °C.

2.3.1 standard tropical atmosphere for testing: An atmosphere which has a relative humidity of 65 ± 2 % and a temperature of 27 ± 2 °C.

NOTE — The adjectives "temperate" and "templical" as used in this international Standard have been chosen for the limited use of the tentils industry.

3 PRE-CONDITIONING

Before ounditioning a textile, pre-conditioning may be required. If so, the textile shall be brought approximately to equilibrium in an atmosphere having a relative humidity of between 10 and 25 % and a temperature not exceeding 50 °C.

These conditions may be obtained by heating air at 65 % relative humidity and 20 °C (the standard temperate atmosphere) to a temperature of 50 °C, or by heating air at 65 % relative humidity and 27 °C (the standard tropical atmosphere) to a temperature up to 50 °C.

4 CONDITIONING

Before a textile is tested to determine a physical or mechanical property, it shall be conditioned by plocing it in the standard temperate atmosphere for testing, in such a way that the air flows freely through the textile, and keeping it there for the time required to bring it into equilibrium with the atmosphere.

Unless otherwise specified in the method of test, the textile should be considered to be in equilibrium when successive verighings, at intervals of 2 h. of the textile materials freely exposed to the moving air show no progressive change in meas greater than 0,25 %.

In tropical or sub-tropical countries, the standard tropical atmosphere for testing may be used.

S TESTING

Except for special cases (for example wet tests), physical and mechanical tests of textiles are carried out in the conditioned state in the standard temperate atmosphere for texting. In tropical and sub-tropical countries, however, the standard tropical atmosphere for texting may be used.

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WHO Recommended Classification of Pesticides by Hazard and Guidelines to Classification 2009 International Program on Chemical Safety, World Health Organization, 2010 The WHO Recommended Classification of Pesticides by Hazard was approved by the 28th World Health Assembly in 1975 and has since gained wide acceptance When it was published in the WHO Chronicle 29 397 401 1975 an annex which was not part of the Classification illustrated its use by listing examples of classification of some pesticidal active ingredients and their formulations Later suggestions were made by Member States and pesticide registration authorities that further guidance should be given on the classification of individual pesticides Guidelines were first issued in 1978 and have since been revised and reissued every few years Up until the present revision the original guidelines approved by the World Health Assembly in 1975 have been followed without amendment In December 2002 the United Nations Committee of Experts on the Transport of Dangerous Goods and on the Globally Harmonized System of Classification and Labelling of Chemicals UNCETDG GHS approved a document called The Globally Harmonized System of Classification and Labelling of Chemicals with the intent to provide a globally harmonized system1 GHS to address classification of chemicals labels and safety data sheets The GHS with subsequent revisions is now being widely used for the classification and labeling of chemicals worldwide For this revision of the Classification the WHO Hazard Classes have been aligned in an appropriate way with the GHS Acute Toxicity Hazard Categories for acute oral or dermal toxicity as the starting point for allocating pesticides to a WHO Hazard Class with adjustments for individual pesticides where required It is anticipated that few of the more toxic pesticides will change WHO Hazard Class as a result of this change As has always been the case the classification of some pesticides has been adjusted to take account of severe hazards to health other than acute toxicity as described in Part II The GHS Acute Toxicity Hazard Category for each pesticide is now presented alongside the existing information Page 1 ISO 139 International Organization for Standardization, 2005 WHO recommended classification of pesticides by hazard and guidelines to classification, 2019 edition, 2020-04-30 Advanced Soft **Electronics in Biomedical Engineering** Mengxiao Chen, 2024-07-16 The book presents the latest advances in soft electronics in biomedical engineering and its potential applications in various biomedical fields. The contributors provide comprehensive coverage of how soft electronics are used in diagnostics and monitoring medical therapy neural engineering and wearable and implantable systems In particular some emerging research areas such as advanced soft robotics fiber sensing technologies and power optimization strategies are explored In addition the book highlights international standardization activities in wearable technologies and implantable bioelectronics. The book will benefit researchers engineers and advanced students in biomedical engineering electrical and computer engineering and materials science

Manual on the development and use of FAO and WHO specifications for chemical pesticides Food and Agriculture Organization of the United Nations, World Health Organization, 2022-04-05 In 2001 the Food and Agriculture

Organization of the United Nations FAO and the World Health Organization WHO agreed to develop specifications for pesticides jointly thus providing unique robust and universally applicable standards for pesticide quality This joint programme is based on a memorandum of understanding between the two organizations This 2021 second edition of the manual on development and use of FAO and WHO specifications for pesticides which is only available online supersedes the March 2020 third revision of the first edition and previous manuals and guidance documents published by either FAO or WHO on this subject This manual provides the standard process unified requirements and procedures harmonized definitions and nomenclature technical guidelines and standards applicable to pesticides for use in agriculture and public health FAO and WHO specifications for pesticides based on this manual are developed through the FAO WHO Joint Meeting on Pesticide Specifications JMPS and published on the web sites of the two organizations **Textiles for Cold Weather Apparel** J T Williams, 2009-09-29 Cold weather can be a potential hazard to human health adversely affecting physiological functions work performance and wellbeing Designing suitable apparel for cold environments is therefore a complex task Textiles for cold weather apparel reviews the principles materials and requirements of cold weather apparel and will stimulate ideas for future innovation and improved end performance The first part of the book covers the fundamental scientific issues and types of materials suitable for cold weather clothing Topics include how to achieve comfort and thermoregulation in cold weather clothing as well as the use of coated and laminated fabrics It also discusses design and ergonomic aspects such as designing for ventilation Part two discusses ways of evaluating cold weather clothing including standards and legislation governing cold weather clothing and laboratory assessments Part three concludes with applications including cold weather apparel for the military and footwear for cold weather conditions With an array of international contributors this book is a valuable reference for producers manufacturers retailers and all those wishing to improve and understand developments in cold weather apparel Reviews the principles materials and requirements of cold weather apparel Discusses design and ergonomic aspects including ventilation and insulation Examines methods used to evaluate cold weather clothing as well as standards and legislation in practice Manual on the development and use of FAO and WHO specifications for chemical pesticides World Health Organization, Food and Agriculture Organization of the United Nations, 2023-11-08 Management in the Oil and Gas Industry Gerardo Portela Da Ponte Jr, 2021-06-09 Risk Management in the Oil and Gas Industry Offshore and Onshore Concepts and Case Studies delivers the concepts strategies and good practices of offshore and onshore safety engineering that are applicable to petroleum engineering and immediately surrounding industries Guided by the strategic risk management line this reference organizes steps in order of importance and priority that should be given to the themes in the practical exercise of risk management activities from the conceptual and design phase to operational and crisis management situations Each chapter is packed with practical case studies lessons learned exercises and review questions. The reference also touches on the newest techniques including liquefied natural gas cryogenics operations and

computer simulations that contemplate the influence of human behavior Critical for both the new and experienced engineer this book gives the best didactic tool to perform operations safely and effectively Helps readers by presenting practical case studies and exercises that are included in every chapter Presents an understanding on how to approach and apply best practices specific to the oil and gas industry both offshore and onshore Provides the knowledge needed to gain new techniques in computer simulation and human factors to apply to various sectors of the industry including subsea and refineries Advanced Textile Testing Techniques Sheraz Ahmad, Abher Rasheed, Ali Afzal, Faheem Ahmad, 2017-08-01 Textile testing is an important field of textile sciences involving experimental evaluation of conventional as well as technical textile products This book aims to provide technical details required protocols and procedures for conducting any specific evaluation test along with key parameters The book covers the topics in two main sections first one for the conventional textile testing techniques starting from fiber to final product while the second one focusses on testing of technical textiles Written with a reader friendly approach it will cater to graduate students in textile engineering as well as industry personnel focusing on following key points Addresses all techniques for testing both conventional and technical textiles Describes testing techniques compliance with the latest requirements of the updated EN ISO and AATCC standards Provides detailed description on the testing of technical textiles and their products Discusses the operations conditions like atmospheric conditions and human error with cause and effect diagrams Covers both destructive and non destructive testing

Globalization and Regulatory Character Fiona Haines, 2019-06-04 Originally published in 2005 Uniting critical debates on globalization with those on regulation this book provides an innovative account of the fate of safety regulation in the face of global pressures The author addresses the key question of whether globalization is making safety standards better or worse She analyzes the diverse strands of globalization that threaten safety standards and examines the measures that hold potential for beneficial change Regulatory character a theoretical model that captures local economic political and cultural influence developed in the work sheds light on how and why regulation and safety standards do or do not change in the face of a crisis The theoretical work is grounded and illuminated by research on the Thai government s response to the Kader fire set in the rapidly industrializing context of Southeast Asia Theoretically rigorous and empirically rich the book has critical contemporary social relevance It demonstrates a diverse theoretical heritage embracing Weber Douglas and Christopher Hood amongst others that critically and productively engages with research and policy making to raise safety standards Soft Computing in Textile Engineering Abhijit Majumdar, 2010-11-29 Soft computing refers to a collection of computational techniques which study model and analyse complex phenomena As many textile engineering problems are inherently complex in nature soft computing techniques have often provided optimum solutions to these cases Although soft computing has several facets it mainly revolves around three techniques artificial neural networks fuzzy logic and genetic algorithms The book is divided into five parts covering the entire process of textile production from fibre manufacture to

garment engineering These include soft computing techniques in yarn manufacture and modelling fabric and garment manufacture textile properties and applications and textile quality evaluation Covers the entire process of textile production from fibre manufacture to garment engineering including artificial neural networks fuzzy logic and genetic algorithms Examines soft computing techniques in yarn manufacture and modelling fabric and garment manufacture Specifically reviews soft computing in relation to textile properties and applications featuring garment modelling and sewing machines

Thermal Analysis of Textiles and Fibers Michael Jaffe, Joseph D. Menczel, 2020-03-24 Thermal Analysis of Textiles and Fibers offers systematic and comprehensive coverage of the subject from the principles of fiber structure and established TA methods to advanced TA techniques and their application to high performance fibers and textiles Thermal analysis is a convenient method for assessing fiber and fabric performance as monitored under end use relevant conditions Expertise in this field requires knowledge of both TA methods and of fiber behavior information that is brought together in this new volume In recent years thermal analysis has been applied to a variety of novel and high performance fibers such as Kevlar Vectran PBI polyolefins polypropylene PAN and PVA amongst others TA techniques are also used in fiber identification characterization and stability testing and may be combined with spectroscopic techniques to yield still more information about fiber properties Advances in Additive Manufacturing, Modeling Systems and 3D Prototyping Massimo Di Nicolantonio, Emilio Rossi, Thomas Alexander, 2019-06-04 This book discusses the latest advances in digital modeling systems DMSs and additive manufacturing AM technologies It covers applications of networked technologies ubiquitous computing new materials and hybrid production systems discussing how they are changing the processes of conception modeling and production of products and systems of product The book emphasizes ergonomic and sustainability issues as well as timely topics such as DMSs and AM in Industry 4 0 DMSs and AM in developing countries DMSs and AM in extreme environments thus highlighting future trends and promising scenarios for further developing those technologies Based on the AHFE 2019 International Conference on Additive Manufacturing Modeling Systems and 3D Prototyping held on July 24 28 2019 in Washington D C USA the book is intended as source of inspiration for researchers engineers and stakeholders and to foster interdisciplinary and international collaborations between them **International Standards for Food Safety Naomi** Rees, David Watson, 2000-04-30 This is one of the first books to draw together information and views about international control of food safety from around the world Demands for safe food against a background of increasing trade are making international controls on food safety essential Agreements on how to control the safety of food to meet these needs are now in place among the major trading blocks particularly in Europe and in the USA and more recently in Australia This book also describes progress in areas such as systematically reviewing risk from food developing national infrastructures to enforce standards and growing input from consumer groups and others including economists to the debate on how to set international food standards Discussed in depth is the effort to achieve global standards for food safety under the auspices of

the Codex Alimentarius Commission There are chapters from world leading experts on Codex international control of radiological contamination pesticides and veterinary drugs and other chemical contaminants Water Quality Concepts, Sampling, and Analyses Yuncong Li, Kati Migliaccio, 2010-10-21 As water quality becomes a leading concern for people and ecosystems worldwide it must be properly assessed in order to protect water resources for current and future generations Water Quality Concepts Sampling and Analyses supplies practical information for planning conducting or evaluating water quality monitoring programs It presents the Report of Investigations ,1949 **Textile and Clothing Design Technology** Tom Cassidy, Parikshit Goswami, 2017-11-15 In the textile industry there is a pressing need for people who can facilitate the translation of creative solutions from designers into manufacturing language and data The design technologist has to understand the elements and principles employed by designers and how these change for various textile media One must also have a good understanding of the processes materials and products for which the textile designer is required to produce creative solutions This book will be for designers wishing to improve their technological knowledge technologists wishing to understand the design process and anyone else who seeks to work at this design technology interface Key Features Provides a comprehensive information about textile production apparel production and the design aspects of both textile and apparel production Fills the traditional gap between design and manufacture changing with advanced technologies Includes brief summary of spinning weaving chemical processing and garmenting Facilitates translation of creative solutions from designers into manufacturing language and data Covers set of workshop activities Electrically Conductive Textiles Subhankar Maity, Pintu Pandit, Saptarshi Maiti, 2024-11-15 Nonmetallic electroconductive textiles unlike metals offer flexibility durability moldability and lightweight attributes A brilliant quality of these textiles is the capability to alter conductivity through various external stimuli e q strain torsion pH humidity to suit a specific application such as sensors heating garments EMI shielding energy harvesting devices and wearable electronics Based on these concepts Advances in Electrically Conductive Textiles Materials Characterization and Applications has been structured into three main sections Section I contains chapters discussing the various preparation methods of electroconductive textiles Section II contains chapters on their characteristics and features and Section III details the end use applications and sustainability of these textiles Explores strategies and methods in the development of electroconductive textile composites Investigates features of nonmetallic conductive textiles prepared from graphene conductive polymers MXene and carbon nanotubes Examines the application of electroconductive textiles for heat generation EMI shielding sensors antimicrobial filtration energy storage energy harvesting and smart textiles Natural Polymers, Biopolymers, Biomaterials, and Their Composites, Blends, and IPNs Sabu Thomas, Neethu Ninan, Sneha Mohan, Elizabeth Francis, 2012-07-18 Natural Polymers Biopolymers Biomaterials and Their Composites Blends and IPNs focuses on the recent advances in natural polymers biopolymers biomaterials and their composites blends and IPNs Biobased polymer blends and composites occupy a unique

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