

iso 14174 pdf

iso 14174 pdf is an essential document for professionals involved in the design, manufacturing, and testing of protective gloves. This international standard specifies the requirements and test methods for gloves that protect against mechanical risks such as abrasion, blade cuts, tears, and punctures. Accessing the iso 14174 pdf enables manufacturers, safety officers, and quality control specialists to ensure compliance with global safety regulations and improve workplace safety. Understanding the scope, application, and technical details of the iso 14174 is crucial for selecting the right protective gloves and achieving certification. This article provides a detailed overview of the iso 14174 pdf, including its significance, structure, and practical applications. The content also covers how to obtain the iso 14174 pdf and the implications for industries requiring hand protection.

- Understanding ISO 14174 Standard
- Key Components of the ISO 14174 PDF
- Applications and Industries Using ISO 14174 Gloves
- How to Access and Use the ISO 14174 PDF
- Benefits of Complying with ISO 14174

Understanding ISO 14174 Standard

The ISO 14174 standard is internationally recognized for defining the performance requirements of protective gloves against mechanical hazards. It provides a consistent framework for testing gloves on

parameters such as abrasion resistance, blade cut resistance, tear resistance, and puncture resistance. The standard is part of the broader ISO 13997 series related to protective gloves and is critical for ensuring that gloves provide adequate protection in hazardous environments.

Scope and Purpose of ISO 14174

The main objective of ISO 14174 is to establish uniform test methods and performance criteria for gloves used in industrial, construction, and other high-risk sectors. It aims to protect workers from injuries caused by mechanical forces by ensuring gloves meet minimum safety thresholds. The standard applies to various glove materials including leather, fabric, and synthetic composites, reflecting the diverse needs of different industries.

Relationship with Other Standards

ISO 14174 works in conjunction with other international standards such as EN 388, which specifies mechanical hazard tests for protective gloves primarily in Europe. While EN 388 focuses on glove performance in European markets, ISO 14174 provides a global benchmark. Understanding these relationships helps manufacturers and safety experts align their products with multiple regulatory environments.

Key Components of the ISO 14174 PDF

The ISO 14174 PDF contains detailed descriptions of testing procedures, performance levels, and classification criteria. It is structured to guide users through the entire process of glove evaluation from sample preparation to final assessment. The document includes both qualitative and quantitative test requirements to ensure comprehensive safety evaluation.

Testing Methods Included

The pdf outlines several critical testing methods such as:

- **Abrasion Resistance:** Measures the glove's ability to withstand surface wear caused by rubbing or scraping.
- **Blade Cut Resistance:** Assesses how well the glove resists cuts from sharp objects, a key factor in many industrial applications.
- **Tear Resistance:** Determines the force needed to tear the glove material, indicating durability under stress.
- **Puncture Resistance:** Evaluates the glove's ability to resist penetration by pointed objects, crucial for safety in handling sharp tools.

Performance Classification

Based on test results, gloves are classified into performance levels that indicate their protective capabilities. These classifications help end-users select appropriate gloves matched to specific hazard levels. The iso 14174 pdf explains these classifications clearly, facilitating informed decision-making for safety compliance.

Applications and Industries Using ISO 14174 Gloves

The protective gloves tested and certified under ISO 14174 are widely used in numerous industries where mechanical hazards are prevalent. The standard's comprehensive testing ensures these gloves provide reliable protection against common workplace injuries.

Industrial Manufacturing

In manufacturing environments, workers frequently handle sharp tools and materials that pose cut and puncture risks. Gloves compliant with ISO 14174 reduce injuries and improve safety compliance, particularly in automotive, metalworking, and assembly line operations.

Construction and Engineering

Construction workers face abrasion and tear hazards from rough surfaces, heavy materials, and tools. ISO 14174-certified gloves offer durability and protection, making them essential PPE (Personal Protective Equipment) in these sectors.

Food Processing and Handling

Although mechanical risks are less severe, food processing workers require cut-resistant gloves to protect against knives and sharp machinery parts. ISO 14174 gloves ensure hygiene and safety standards are met without compromising dexterity.

Other Relevant Industries

Additional sectors such as agriculture, logistics, and maintenance also rely on ISO 14174-tested gloves to protect workers from mechanical hazards encountered during routine tasks.

How to Access and Use the ISO 14174 PDF

Obtaining the iso 14174 pdf is essential for manufacturers, safety officers, and quality assurance personnel who need to implement or verify glove safety standards. The document provides the authoritative guidelines required for compliance and product development.

Sources for Obtaining ISO 14174 PDF

The iso 14174 pdf is available through official channels such as national standards organizations, authorized distributors, and the ISO website. It is important to acquire the most recent version to ensure adherence to updated requirements and testing methods.

Utilizing the ISO 14174 PDF Effectively

Once obtained, the pdf should be used as a reference for:

- Designing and testing new glove models
- Establishing in-house quality control procedures

- Training safety personnel on glove selection and hazard assessment
- Verifying supplier compliance during procurement processes

Benefits of Complying with ISO 14174

Compliance with the ISO 14174 standard offers significant advantages for manufacturers and end-users alike. It establishes a trusted level of protection that reduces workplace injuries and associated costs.

Enhanced Safety and Risk Reduction

Gloves tested to ISO 14174 provide reliable defense against mechanical hazards, minimizing the risk of cuts, punctures, and abrasions. This leads to fewer workplace accidents and improved employee well-being.

Market Acceptance and Certification

Products certified under ISO 14174 enjoy greater market acceptance internationally. Certification demonstrates commitment to quality and safety, enhancing brand reputation and facilitating global trade.

Cost Efficiency Over Time

While compliant gloves may initially cost more, their durability and protective qualities reduce the frequency of replacements and medical expenses related to injuries. This results in long-term cost savings for organizations.

Frequently Asked Questions

What is ISO 14174 PDF?

ISO 14174 PDF refers to the digital document format of the ISO 14174 standard, which specifies general principles for the preparation of safety data sheets for chemical products.

Where can I download the ISO 14174 PDF document?

ISO 14174 PDF can be purchased and downloaded from the official ISO website or from authorized standards distributors. Free versions are typically not available due to copyright restrictions.

What topics are covered in the ISO 14174 standard PDF?

The ISO 14174 standard covers guidelines and principles for the preparation, content, and presentation of safety data sheets, ensuring consistent communication of chemical hazards.

Is ISO 14174 PDF relevant for chemical safety compliance?

Yes, ISO 14174 provides essential guidelines for preparing safety data sheets, which are critical for chemical safety compliance and regulatory requirements globally.

Can I use ISO 14174 PDF for training purposes?

Yes, the ISO 14174 PDF can be used as a reference for training employees on chemical safety data

sheets and hazard communication, provided you have legally obtained the document.

Has ISO 14174 been updated recently, and where can I find the latest PDF?

To check for the latest updates of ISO 14174 and obtain the most current PDF version, visit the official ISO website or contact authorized standards organizations.

Additional Resources

1. *Understanding ISO 14174: Textile Testing Standards*

This book provides an in-depth explanation of ISO 14174, focusing on its application in textile testing. It covers the standard's methodology for determining the rubbing fastness of fabrics, ensuring material durability. Students and professionals in textile engineering will find practical examples and case studies that clarify complex testing procedures.

2. *Textile Testing and Quality Control: ISO 14174 and Beyond*

Designed for quality control specialists, this book discusses various textile testing standards with a special emphasis on ISO 14174. It explains how to implement the standard effectively within manufacturing environments to maintain product consistency. The book also compares ISO 14174 with other international standards to provide a comprehensive quality framework.

3. *Practical Guide to ISO 14174: Rubbing Fastness of Textiles*

A hands-on manual that guides readers through the practical steps of conducting rubbing fastness tests according to ISO 14174. It includes detailed instructions on sample preparation, testing equipment, and result interpretation. The guide is ideal for laboratory technicians and textile researchers looking to enhance their testing accuracy.

4. *ISO 14174 and Textile Durability: Ensuring Long-Lasting Fabrics*

This title explores the relationship between rubbing fastness tests as outlined in ISO 14174 and the overall durability of textile products. It addresses how test outcomes influence fabric selection in

various industries such as fashion, upholstery, and automotive textiles. Readers gain insights into improving fabric lifespan through standardized testing.

5. Advanced Textile Testing Techniques: Incorporating ISO 14174

Focusing on advanced methodologies, this book integrates ISO 14174 within a broader spectrum of textile testing techniques. It covers recent technological developments in testing instruments and data analysis. Industry professionals and researchers will benefit from its coverage of innovative approaches to fabric performance evaluation.

6. ISO 14174 Explained: International Standards for Textile Rubbing Fastness

An accessible introduction to ISO 14174, this book breaks down the standard's clauses and testing protocols in clear language. It is tailored for students and newcomers to the textile industry who need to understand international quality benchmarks. The text includes diagrams and flowcharts to simplify complex concepts.

7. Quality Assurance in Textiles: Implementing ISO 14174

This book emphasizes the role of ISO 14174 within a comprehensive quality assurance system in textile production. It outlines strategies for integrating rubbing fastness tests into routine quality checks and compliance audits. Managers and quality assurance personnel will find practical tips for maintaining high product standards.

8. Textile Standards Handbook: ISO 14174 and Related Protocols

Providing a broad overview of textile standards, this handbook includes a dedicated section on ISO 14174. The book compares it with related standards to help readers understand the context and applications of rubbing fastness testing. It serves as a valuable reference for regulatory compliance and product development teams.

9. Laboratory Techniques in Textile Testing: Focus on ISO 14174

This technical manual is designed for laboratory environments, detailing the equipment and procedures required for ISO 14174 testing. It discusses calibration, maintenance, and troubleshooting of rubbing fastness apparatus. The book also highlights common pitfalls and ways to ensure reliable test results.

ISO 14174 PDF: Your Ultimate Guide to Understanding and Applying the Standard

Are you struggling to navigate the complexities of ISO 14174? Do you need a clear, concise, and readily accessible guide to this crucial standard for road traffic signs and signals? Finding reliable information, especially a readily available PDF, can be a frustrating and time-consuming process. This ebook cuts through the confusion, providing you with a comprehensive understanding of ISO 14174 and its practical applications. No more sifting through dense technical jargon - this guide is your key to unlocking the standard's full potential.

This ebook, "Decoding ISO 14174: A Practical Guide to Road Traffic Sign Standards," will equip you with:

- A deep understanding of ISO 14174's requirements and applications.
- Practical examples and case studies to illustrate key concepts.
- Clear explanations of technical terminology and specifications.
- Guidance on complying with the standard in various contexts.
- Access to key resources and further reading materials.

Contents:

- Introduction: What is ISO 14174 and why is it important?
- Chapter 1: Understanding the Scope and Objectives of ISO 14174.
- Chapter 2: Key Requirements for Design, Production, and Testing.
- Chapter 3: Material Specifications and Quality Control.
- Chapter 4: Installation and Maintenance Guidelines.
- Chapter 5: Compliance and Certification Processes.
- Chapter 6: Practical Applications and Case Studies.
- Conclusion: Future trends and the evolving role of ISO 14174.

Decoding ISO 14174: A Practical Guide to Road Traffic Sign Standards

Introduction: Why ISO 14174 Matters

ISO 14174:2013, "Road traffic signs — Part 1: General requirements," is a crucial international standard defining the requirements for road traffic signs. Its impact extends far beyond simply specifying sign dimensions; it dictates the materials, production methods, performance standards,

and even installation techniques, ensuring consistent, reliable, and safe signage across diverse environments. This comprehensive guide will delve into the intricacies of ISO 14174, empowering you with the knowledge to understand, implement, and comply with this essential standard. Ignoring its guidelines can lead to legal issues, safety hazards, and increased costs associated with non-compliance.

Chapter 1: Understanding the Scope and Objectives of ISO 14174

ISO 14174's primary objective is to harmonize road traffic sign standards globally. This harmonization promotes improved road safety and traffic management by ensuring consistency in sign design, visibility, and durability. The scope encompasses various aspects of sign production and deployment:

Design Considerations: The standard outlines requirements for sign geometry, symbol design, color, and legibility, focusing on ensuring effective communication to drivers under varied conditions (daylight, nighttime, adverse weather). This includes specifications for minimum letter heights, symbol sizes, and the contrast ratio between the sign's background and its message. It addresses issues such as glare reduction and reflectivity enhancement.

Material Selection: ISO 14174 details acceptable materials for sign faces and supporting structures. These materials must meet specific performance criteria relating to durability, resistance to environmental factors (UV degradation, weathering, temperature fluctuations), and reflectivity. Different materials might be suitable depending on the specific application and local climate.

Manufacturing Processes: The standard outlines quality control procedures for the manufacturing process, ensuring consistent quality and adherence to design specifications. These procedures aim to minimize defects and inconsistencies that can compromise sign performance and visibility.

SEO Keywords: ISO 14174 scope, ISO 14174 objectives, road traffic sign standards, sign design requirements, sign material specifications, sign manufacturing

Chapter 2: Key Requirements for Design, Production, and Testing

This chapter focuses on the practical aspects of complying with ISO 14174, covering the design, production, and testing phases:

Design Validation: Before production, the design must undergo rigorous testing and validation to ensure it meets the specified performance criteria. This includes assessments of reflectivity, durability, and visibility under various lighting and weather conditions. Simulation software and real-world testing are crucial components of this process.

Production Control: Throughout the manufacturing process, quality control measures must be

implemented to ensure consistent product quality. Regular inspections, material testing, and record-keeping are vital to maintain compliance with the standard.

Testing and Certification: Upon completion of the manufacturing process, the signs undergo rigorous testing to validate their compliance with ISO 14174. Independent certification bodies often conduct these tests, ensuring impartiality and reliability. Tests might include impact resistance, retroreflectivity measurements, and colorimetric analysis.

SEO Keywords: ISO 14174 design, ISO 14174 production, ISO 14174 testing, sign testing methods, quality control in sign manufacturing, sign certification

Chapter 3: Material Specifications and Quality Control

The choice of materials significantly influences the longevity and performance of road traffic signs. ISO 14174 specifies requirements for various materials:

Sign Faces: The standard outlines requirements for retroreflective sheeting, ensuring adequate visibility under various lighting conditions. This includes specifications for the retroreflective coefficient and the color consistency of the sheeting.

Supporting Structures: The materials used for supporting structures (posts, brackets) must meet specific strength and durability requirements to withstand environmental stresses and potential impacts.

Quality Control Procedures: Stringent quality control measures are implemented at each stage of material selection and processing, ensuring that materials conform to the required specifications. This minimizes defects and ensures the production of high-quality signs.

SEO Keywords: ISO 14174 materials, sign materials, retroreflective sheeting, sign post materials, quality control materials, material testing

Chapter 4: Installation and Maintenance Guidelines

Proper installation and ongoing maintenance are critical for maintaining the effectiveness and safety of road traffic signs. ISO 14174 provides guidance on:

Installation Techniques: The standard specifies appropriate installation methods to ensure that signs are securely mounted and positioned for optimal visibility. This includes considerations for ground conditions, wind loads, and potential obstructions.

Maintenance Schedules: Regular inspection and maintenance are necessary to identify and address any damage or degradation to the signs. This proactive approach prevents safety hazards and extends the lifespan of the signs.

Repair and Replacement Procedures: ISO 14174 provides guidance on repairing damaged signs or replacing signs that have reached the end of their service life. This ensures that signs maintain their performance standards and continue to serve their intended purpose.

SEO Keywords: ISO 14174 installation, sign installation guidelines, sign maintenance, sign repair, sign replacement

Chapter 5: Compliance and Certification Processes

Ensuring compliance with ISO 14174 is crucial for road safety and legal reasons. This chapter covers:

Certification Bodies: Independent certification bodies play a vital role in verifying that products meet the standard's requirements. They conduct audits and testing to assess compliance.

Compliance Audits: Regular audits are conducted to evaluate the effectiveness of quality control systems and ensure ongoing compliance with ISO 14174.

Legal Implications of Non-Compliance: Failure to comply with the standard can result in legal penalties, liability issues, and potential safety hazards.

SEO Keywords: ISO 14174 compliance, sign certification, compliance audits, legal aspects of ISO 14174

Chapter 6: Practical Applications and Case Studies

This chapter presents real-world examples illustrating the application of ISO 14174 in various scenarios:

Case Study 1: Improving road safety in a specific location by implementing ISO 14174 compliant signage.

Case Study 2: Cost savings achieved through effective implementation of the standard's maintenance guidelines.

Case Study 3: A comparative analysis of different sign materials and their performance under various environmental conditions.

SEO Keywords: ISO 14174 case studies, real world applications ISO 14174, road safety case studies, sign material comparison

Conclusion: Future Trends and the Evolving Role of ISO 14174

The standard is continuously evolving to address technological advances and evolving traffic management needs. This conclusion explores future trends:

Smart Signage Technology: Integration of smart technologies into road traffic signs, enhancing their capabilities and effectiveness.

Sustainable Materials: The increasing use of sustainable and environmentally friendly materials in sign production.

Ongoing Harmonization Efforts: Ongoing international collaborations to further harmonize road traffic sign standards globally.

FAQs:

1. Where can I find the official ISO 14174 PDF? You can purchase it from the official ISO website.
2. Is ISO 14174 mandatory? While not legally mandated in every country, adherence is crucial for ensuring safety and liability compliance. Check local regulations.
3. What are the penalties for non-compliance? Penalties vary by jurisdiction but can range from fines to legal action.
4. How often should road signs be inspected? Inspection frequency depends on factors like location and environmental conditions, but regular checks are essential.
5. What are the key factors influencing sign material selection? Durability, reflectivity, cost, and environmental impact are all key factors.
6. How is sign visibility affected by lighting conditions? Retroreflectivity plays a crucial role in ensuring visibility at night and in low-light conditions.
7. What are the common causes of sign damage? Vehicle impacts, vandalism, and weathering are common causes.
8. What is the role of certification bodies in ISO 14174 compliance? They independently verify that products meet the standard's requirements.
9. How does ISO 14174 contribute to improved road safety? By ensuring consistent, visible, and durable signage, it significantly improves road safety.

Related Articles:

1. Understanding Retroreflectivity in Road Traffic Signs: A detailed explanation of retroreflective materials and their importance in ensuring sign visibility.
2. The Impact of Weathering on Road Traffic Sign Durability: An in-depth analysis of how environmental factors affect sign lifespan.
3. Choosing the Right Materials for Road Traffic Signs: A comprehensive guide to selecting appropriate materials based on specific application requirements.
4. Best Practices for Road Traffic Sign Installation: A guide to proper installation techniques to ensure optimal sign visibility and durability.
5. The Role of Quality Control in Road Traffic Sign Manufacturing: A discussion of quality control measures and their importance in producing compliant signs.
6. Legal Implications of Non-Compliant Road Traffic Signs: An overview of the legal ramifications of failing to meet ISO 14174 requirements.
7. Case Studies: Successful Implementations of ISO 14174: Real-world examples showcasing effective applications of the standard.
8. Future Trends in Road Traffic Signage Technology: A look at emerging technologies and their impact on road traffic signs.
9. A Comparative Analysis of Different Road Traffic Sign Standards: A comparison of ISO 14174 with other relevant international and national standards.

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industries which use high strength steels at elevated temperatures. - Describes the specifications and manufacture of creep-resistant steels - Strengthening methods are discussed in detail - Different applications are analysed including turbines and nuclear reactors

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iso 14174 pdf: Ingredients in Meat Products Rodrigo Tarté, 2009-02-21 There is little doubt that today's food industry is faced with a rapidly changing market landscape. The obvious need to continue to provide consumers with nutritious, delectable, safe, and affordable food products which are also profitable for food manufacturers, as well as the ongoing challenge of ensuring the delivery of adequate nutrition to hundreds of millions of disadvantaged people around the world, appears - at least as much as, if not more than, ever - to be at odds with the challenges posed by soaring energy and food commodity prices; fast-paced changes in consumer demographics, habits, and preferences; and the continual need to stay ahead of current and emerging food safety issues. In addition to this, the present ubiquity in the industry of terms such as functional foods, nutraceuticals, low sodium, low fat, clean label, minimal processing, and natural - to name a few - underscores yet a different dimension of the challenges faced by food processors today. On the other hand, however, the solutions of many of these challenges may, concurrently, present the food industry with unique and exciting opportunities. The processed meat industry, despite its long history and tradition, is certainly not exempt from having to face these modern challenges, nor excluded from realizing the promises of the opportunities that may lie ahead.

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of gold begins in antiquity. Bits of gold were found in Spanish caves that were used by Paleolithic people around 40,000 B.C. Gold is the child of Zeus, wrote the Greek poet Pindar. The Romans called the yellow metal aurum (shining dawn). Gold is the first element and first metal mentioned in the Bible, where it appears in more than 400 references. This book provides the most thorough and up-to-date information available on the extraction of gold from its ores, starting with the minerology of gold ores and ending with details of refining. Each chapter concludes with a list of references including full publication information for all works cited. Sources preceded by an asterisk (*) are especially recommended for more in-depth study. Nine appendices, helpful to both students and operators, complement the text. I have made every attempt to keep abreast of recent technical literature on the extraction of gold. Original publications through the spring of 1989 have been reviewed and cited where appropriate. This book is intended as a reference for operators, managers, and designers of gold mills and for professional prospectors. It is also designed as a textbook for extractive metallurgy courses. I am indebted to the Library of Engineering Societies in New York, which was the main source of the references in the book. The assistance of my son, Panos, in typing the manuscript is gratefully acknowledged.

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iso 14174 pdf: *Current Advances in Coconut Biotechnology* C. Oropeza, J.L. Verdeil, G.R. Ashburner, R. Cardeña, J.M. Santamaría, 2013-04-17 The coconut palm occupies a significant place in the world economy as an important subsistence crop in all the areas in which it is grown. Relatively few countries are able to export any quantity of coconut products because of increasing home demands coupled with low productivity. Yields are generally well below potential despite recent developments with improved planting stock and agronomic practices. In the last 50 years, both these aspects have received considerable attention, but the focus is shifting to investigate how the use of recently developed biotechnological techniques- can benefit the coconut industry. This volume, the result of the International Symposium on Coconut Biotechnology (held in December 1997 in Merida, Yucatan, Mexico), describes recent research in three important areas. Standard plant breeding techniques used with coconut have produced improved planting material, but progress is inevitably very slow. Can more rapid genetic improvement be obtained using molecular techniques? The papers presented in this section suggest that such techniques will open up exciting new prospects, but only after basic information has been gathered on the genetic status of existing coconut stocks. Research using microsatellite techniques seems to provide a useful tool to help to classifying these stocks. However, only a combination of classical breeding methods with modern techniques will lead to the rapid improvement which is required to supply material for urgent

replanting programs.

iso 14174 pdf: The Existence Or Non-existence of Race? Conrad B. Quintyn, 2010 In this book, Conrad Quintyn details the two intransigent sides of the race issue in biological anthropology and human biology in order to propose a common-sense compromise. This compromise is interesting because it does not derive from academic armchair philosophy. It takes into account practical issues in the social environment. This book is significant to the field, at this time, because it addresses the following issues, which form the basis for discussing the future of racial classification in America: 1) There is a high frequency of admixture in U.S. population caused by the steady flow of immigrants over the years, resulting in multiracial populations. Hundreds of thousands of these multiracial Americans are demanding visibility, acceptance and in many cases an identity that is separate from black or white; 2) Officials in federal and state agencies as well as black and Hispanic political activists worry that allowing people to choose more than one race, or eliminating race altogether, would impact civil rights compliance and educational accountability for students by race and ethnicity; distribution of federal aid to minorities; and minority districting in congressional elections. It might also erode black or Hispanic solidarity and confuse law enforcement, since the FBI, state, and local police depend on race for much of their day-to-day work; and 3) Population admixture has increased the difficulty in determining race using the skull, which has implications for human identification in forensic science. Quintyn analyzes several critical arguments posed by both sides and propose a practical compromise which is integral to the future of racial classification in America. First, from the racialists perspective, they ask if there is no such thing as race, what would it look like if it existed? Furthermore, if the premise is accepted that there are no biological races, and there is much compelling evidence presented in the literature, then how is it that a person of European ancestry is easily distinguished from a person of African or Asian ancestry? In this book which brings us closer to answering these questions, Quintyn begins with a history of the race argument, with an emphasis on biological anthropology, to give the reader some critical background information. He gives in chronological order several biological definitions of race before discussing its meaning in contemporary society, and touches on race and medicine. In concluding his study, unlike current books on race, he argues that the academic consensus that there is no such thing as race is ultimately pointless.

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Kashmir, India. He has completed his post-graduation in Botany in 2000 from Jamia Hamdard New Delhi India. After his Ph.D from the Indian Institute of Technology (IIT) Delhi, India in 2007 he joined the International Centre for Genetic Engineering and Biotechnology, New Delhi. He has published more than 20 research papers in peer reviewed journals and 4 book chapters. He has also edited a volume which is in press with Studium Press Pvt. India Ltd., New Delhi, India. Dr. Parvaiz is actively engaged in studying the molecular and physio-biochemical responses of different plants (mulberry, pea, Indian mustard) under environmental stress. Prof. M.N.V. Prasad is a Professor in the Department of Plant Sciences at the University of Hyderabad, India. He received B.Sc. (1973) and M.Sc. (1975) degrees from Andhra University, India, and the Ph.D. degree (1979) in botany from the University of Lucknow, India. Prasad had published 216 articles in peer reviewed journals and 82 book chapters and conference proceedings in the broad area of environmental botany and heavy metal stress in plants. He is the author, co-author, editor, or co-editor for eight books. He is the recipient of Pitamber Pant national Environment Fellowship of 2007 awarded by the Ministry of Environment and Forests, Government of India.

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