

Originally designed for
D-5442-93

ASTM D-5442 (Reapproved 1998)

Analysis of Petroleum Waxes by GC

Quantitative Wax Standard

D-5442-PAK

At stated Wt. % in Cyclohexane

Wt./Wt. %	Wt./Wt. %	Wt./Wt. %
n-Dodecane 0.02	n-Tetradecane 0.10	n-Hexatriacontane 0.06
n-Tetradecane 0.03	n-Hexadecane 0.12	n-Tetracontane 0.05
n-Hexadecane 0.04	n-Octadecane 0.12	n-Tetrahexatriacontane 0.04
n-Octadecane 0.05	n-Triacontane 0.10	n-Pentacontane 0.03
n-Eicosane 0.06	n-Dotriacontane 0.08	n-Hexacontane 0.02
n-Docosane 0.08		

Column Resolution Standard

D-5442-CRPAK

At stated Wt. % in Cyclohexane

Wt./Wt. %
n-Eicosane 0.05
n-Tetracontane 0.05

Standards of Interest

See ASTM Methods D-37+0, D-5307, D-6352 for additional calibration standards for hydrocarbon analysis or page 15 for new proposed methods.

ASTM

Retention Time Standard Mix 1

D-5442-RT1

Equal parts by weight

n-Hexadecane (c16)	n-Octadecane (c18)
n-Heptadecane (c17)	n-Triacontane (c30)
n-Eicosane (c20)	n-Dotriacontane (c32)
n-Docosane (c22)	n-Hexatriacontane (c36)
n-Tetracontane (c24)	n-Tetracontane (c40)
n-Hexacontane (c26)	n-Tetrahexatriacontane (c44)

Retention Time Standard Mix 2

D-5442-RT2

Equal parts by weight

n-Dodecane (c12)	n-Octadecane (c18)
n-Tetradecane (c14)	n-Triacontane (c30)
n-Hexadecane (c16)	n-Dotriacontane (c32)
n-Octadecane (c18)	n-Hexatriacontane (c36)
n-Eicosane (c20)	n-Tetracontane (c40)
n-Docosane (c22)	n-Tetrahexatriacontane (c44)
n-Tetracontane (c24)	n-Pentacontane (c50)
n-Hexacontane (c26)	n-Hexacontane (c60)

ASTM D-5443

(Reapproved 1998)

Paraffin, Naphthene, and Aromatic Hydrocarbon Type Analysis in Petroleum Distillates through 260°C by Multi-dimensional GC

Hydrocarbon Test Mixture

D-5443-93-HTM

At stated Wt. %

Wt./Wt. %	Wt./Wt. %	Wt./Wt. %
Cyclopentane 1.00	1,2-Dimethylcyclohexane 5.00	1,2,4-Trimethylbenzene 4.25
n-Pentane 1.00	Isocotane 5.00	n-Tetradecane 4.00
Cyclohexane 2.00	n-Octane 5.00	Ethylbenzene 4.50
2,3-Dimethylbutane 2.00	1,2,2,4,4,4-Hexamethylcyclohexane 4.25	n-Nonane 4.25
n-Heptane 2.00	n-Nonane 4.50	n-Propylbenzene 5.00
n-Heptane 1.50	n-Decane 4.25	1,2,4-Trimethylbenzene 4.50
Methylcyclohexane 4.25	n-Undecane 3.50	1,2,3-Trimethylbenzene 5.00
4-Methyl-1-decene 1.50	n-Dodecane 3.25	1,2,4,5-Tetramethylbenzene 5.00
n-Heptane 3.50	Benzene 2.25	Permethylenbenzene 5.00
	Toluene 2.25	

Originally designed for
D-5443-93

Standards of Interest

See pages 6-11 for a comprehensive line of Certified Sulfur Calibration Standards, Petrocheck, & Petrotest quality control products, pages 1-2.

ASTM D-5453

Total Sulfur in Light Hydrocarbons, Motor Fuels and Oils by Ultraviolet Fluorescence

Originally designed for
D-5453-93

Low Level Sulfur Set

D-5453-LL-SET

The set contains the following 5 standards in Isooctane

Cat. No.	Description	Unit
D-5453-LL-BL	Sulfur Blank	2 mL
D-5453-LL-01	Sulfur @ 0.1 ng/g	2 mL
D-5453-LL-02	Sulfur @ 2.5 ng/g	2 mL
D-5453-LL-03	Sulfur @ 5.0 ng/g	2 mL
D-5453-LL-04	Sulfur @ 10.0 ng/g	2 mL

Mid Level Sulfur Set

D-5453-ML-SET

The set contains the following 5 standards in Isooctane

Cat. No.	Description	Unit
D-5453-ML-BL	Sulfur Blank	2 mL
D-5453-ML-01	Sulfur @ 5.0 ng/g	2 mL
D-5453-ML-02	Sulfur @ 25 ng/g	2 mL
D-5453-ML-03	Sulfur @ 50 ng/g	2 mL
D-5453-ML-04	Sulfur @ 100 ng/g	2 mL
D-5453-ML-05	Sulfur @ 200 ng/g	2 mL

High Level Sulfur Set

D-5453-HL-SET

The set contains the following 5 standards in Isooctane

Cat. No.	Description	Unit
D-5453-HL-BL	Sulfur Blank	2 mL
D-5453-HL-01	Sulfur @ 100 ng/g	2 mL
D-5453-HL-02	Sulfur @ 250 ng/g	2 mL
D-5453-HL-03	Sulfur @ 500 ng/g	2 mL
D-5453-HL-04	Sulfur @ 1000 ng/g	2 mL

Real World Sulfur in Various Gasoline & Fuels

QC Samples

Parameter	Method	Approx. Range
Sulfur	D-5453-00	0 - 50 µg/g

Technical Note

Due to the wide variety of recommended solvents and starting materials mentioned in the preparation of the sulfur standards, please review the current product offering listed for certified sulfur standards. Should AccuStandards' current sulfur standard line be missing the necessary standards for your application, please use our custom quotation request form to indicate your required formulation. For pgb Sulfur measurements, see page 6-11.

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Geotechnical Laboratory Measurements for Engineers John T. Germaine, Amy V. Germaine, 2009-06-02 A comprehensive guide to the most useful geotechnical laboratory measurements Cost effective high quality testing of geo materials is possible if you understand the important factors and work with nature wisely *Geotechnical Laboratory Measurements for Engineers* guides geotechnical engineers and students in conducting efficient testing without sacrificing the quality of results Useful as both a lab manual for students and as a reference for the practicing geotechnical engineer the book covers thirty of the most common soil tests referencing the ASTM standard procedures while helping readers understand what the test is analyzing and how to interpret the results Features include Explanations of both the underlying theory of the tests and the standard testing procedures The most commonly taught laboratory testing methods plus additional advanced tests Unique discussions of electronic transducers and computer controlled tests not commonly covered in similar texts A support website at www.wiley.com/college/germaine with blank data sheets you can use in recording the results of your tests as well as Microsoft Excel spreadsheets containing raw data sets supporting the experiments

Teaching and Collecting Technical Standards Chelsea Leachman, Erin M. Rowley, Margaret Phillips, Daniela Solomon, 2023-09-15 Technical standards are a vital source of information for providing guidelines during the design manufacture testing and use of whole products materials and components To prepare students especially engineering students for the workforce universities are increasing the use of standards within the curriculum Employers believe it is important for recent university graduates to be familiar with standards Despite the critical role standards play within academia and the workforce little information is available on the development of standards information literacy which includes the ability to understand the standardization process identify types of standards and locate evaluate and use standards effectively Libraries and librarians are a critical part of standards education and much of the discussion has been focused on the curation of standards within libraries However librarians also have substantial experience in developing and teaching standards information literacy curriculum With the need for universities to develop a workforce that is well educated on the use of standards librarians and course instructors can apply their experiences in information literacy toward teaching students the knowledge and skills regarding standards that they will need to be successful in their field This title provides background information for librarians on technical standards as well as collection development best practices It also creates a model for librarians and course instructors to use when building a standards information literacy curriculum

Defense Standardization Program Journal ,2007

Standardization News American Society for Testing and Materials, 2007

Professional and Practical

Considerations for Landscape Design Steven L. Cantor, 2019-11-29 Drawing on decades of professional practice and teaching experience Steven L Cantor s *Professional and Practical Considerations for Landscape Design* explains the field of landscape architecture outlining with authority how to turn drawings of designs into creative purposeful and striking

landscapes and landforms in today's world This comprehensive guide consists of everything a young professional might encounter from conception through final project archiving ensuring readers have both the tools necessary to keep up with advancements in the field and the practical business knowledge to build life long partnerships Each of the book's concise chapters emphasize a specific aspect of landscape architecture practice from the administration of designs for contracts areas of practice human resources marketing construction materials sustainability and ethics Each chapter is written in a style that best suits the material Alongside detailed definitions and practical do's and don'ts are 30 complex sample problems ranging in difficulty for both individuals and groups An array of original photographs and clear examples in both black and white and color articulate standards and inspire future possibilities featuring the work of Vicky Chan founder of Avoid Obvious Architects and Richard Alomar Associate Professor of Landscape Architecture at Rutgers and co founder of New York Urban Sketchers By combining the author's unique depth of knowledge with real world case studies from America Asia and Europe Professional and Practical Considerations for Landscape Design is an up to date resource for every level of reader from students in landscape architecture programs to professionals working in public or private practice engineering consulting or contracting

Construction Specifications Writing Mark Kalin, Robert S. Weygant, Harold J. Rosen, John R. Regener, 2011-09-13 Updated edition of the comprehensive rulebook to the specifier's craft With this latest update Construction Specifications Writing Sixth Edition continues to claim distinction as the foremost text on construction specifications This mainstay in the field offers comprehensive practical and professional guidance to understanding the purposes and processes for preparation of construction specifications This new edition uses real world document examples that reflect current writing practices shaped by the well established principles and requirements of major professional associations including the American Institute of Architects AIA the Engineers Joint Contract Documents Committee EJCDC and the Construction Specifications Institute CSI Also included are guidelines for correct terminology product selection organization of specifications according to recognized CSI formats and practical techniques for document production Fully revised throughout this Sixth Edition includes Updates to MasterFormat 2004 as well as SectionFormat PageFormat 2007 and Unifomat End of chapter questions and specification writing exercises Samples of the newly updated construction documents from the AIA New chapter on sustainable design and specifications for LEED projects Updated information on the role of specifications in Building Information Modeling BIM

The Art of Natural Building-Second Edition-Completely Revised, Expanded and Updated Joseph F. Kennedy, Michael G. Smith, Catherine Wanek, 2014-07-01 The original complete user friendly introduction to natural building now fully revised and updated The popularity of natural building has grown by leaps and bounds spurred by a grassroots desire for housing that is healthy affordable and environmentally responsible While there are many books available on specific methods such as straw bale construction cob or timber framing there are few resources which introduce the reader to the entire scope of this burgeoning field Fully revised and updated The Art of

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Jaiswal, Yogesh Shermale, Awadhesh P. Singh, Vidya Bhushan Maji, 2025-11-14 This book presents select proceedings of the Indian Geotechnical Conference IGC 2024 held at MIT Chhatrapati Sambhajanagar The book provides the collection of papers that were presented at the IGC 2024 The book covers topic related to geophysical investigation shallow and deep foundation geosynthetics earth retaining structures soil dynamics ground improvement physical and numerical modelling tunnelling and underground structures reliability in geotechnical engineering geomaterial characterisation and so on This book provides its readers an opportunity to enhance their research capacities and knowledge in the various fields of geotechnical engineering This book is a valuable reference book for beginners researchers academicians and professionals interested in geotechnical engineering covering the design and execution of foundations and other structures for variety of infrastructural projects

Risk Management in Sport and Recreation John Otto Spengler, Daniel Connaughton, Andrew T. Pittman, 2006 Risk Management in Sport and Recreation is a comprehensive resource for those charged with the responsibility of providing for the safety of participants and spectators in a sport or recreation setting It covers a range of safety issues including lightning heat illness aquatics playground safety drug testing and medical emergency action plans Readers receive clear and detailed explanations of issues to consider before making decisions on risk management Risk Management in Sport and Recreation is designed to provide a foundation for approaching key issues in safety and risk management It shows readers how to evaluate and analyze various safety issues and apply the underlying concepts to a variety of situations The following are unique features of the text A safety guidelines finder lists Web sites of accessible standards guidelines and recommendations from leading organizations Chapter objectives and pullout boxes of key points and key statistics stress the importance of the topic under discussion Threshold issues in each chapter highlight important factors to consider when making decisions on risk management Real world applications at the end of each chapter present scenarios involving the potential for harm and

readers must make a decision on how to address the issues Examples of public service announcements posters and other publicly viewed safety information are presented An appendix offers examples of emergency action plans checklists and recommendations from organizations such as the National Lightning Safety Institute and university aquatic centers A companion Web site provides links to the Web sites used in the book as well as updates to guidelines and links that may occur after the book is in print The safety guidelines finder gives students and practitioners a single location from which they can easily access important safety information Organized under land based or water based activities each activity lists guidelines recommendations and standards along with the source for that information Each entry includes Web sites where readers can find the full documents The text also features sample guidelines and safety checklists from agencies and associations that demonstrate how organizations might plan for risk and communicate safety information Readers also consider the types of postings and equipment they will need in order to communicate their risk management plans and they are given real life situations in which a risk management plan is needed and are prompted to consider why and how to create a plan for such situations The resource will help students and professionals plan for and manage risk Current and future employees of sport facilities school athletic programs parks and recreation programs youth and aquatic centers or resorts and golf courses will find that Risk Management in Sport and Recreation provides the tools to assist in making the right decisions to manage risk effectively

Advances in Materials and Manufacturing K. Palanikumar, 2015-06-08 Selected peer reviewed papers from the International Conference on Advances in Materials and Manufacturing Engineering ICAMME 2014 December 19 20 2014 Chennai India

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