

## Handbook Of Corrosion Data Materials Data Series 06407g

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*Handbook Of Corrosion Data Materials*

The first part contains summaries on the general corrosion characteristics of major metals and alloys in various corrosion environments. Information in the second part is organized alphabetically by chemical compound and the data for each corrosive agent/compound are presented in tabular form, which has been standardized throughout the book.

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This is a guide handbook (Engineering Practice of Materials and Corrosion-“EPMC”) for materials and corrosion ... gas, chemical, and petrochemical industries. This book provides background knowledge and rationale of the engineering data based on the industrial requirements, such as codes, standards, local regulations, specifications ...

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*Handbook of Corrosion Data, 2nd Edition - ASM International*  
Materials Science and Corrosion Prevention Section Contents Page  
1 Materials of Construction 4  
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8. Cast Steels  
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Volume 13B provides detailed information on the corrosion performance of metals and alloys, along with selection and application considerations for specific materials and corrosive environments. It explains how metals and nonmetals are affected by various elements and how to protect them with thermal spray coatings, electroplated materials, cladding, and other methods.

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by chemical compound and the data for each corrosive agent

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compound are presented in tabular form which has been handbook of corrosion data materials data series second printing april 1990 edition by bruce d craig editor 47 out of 5 stars 3 ratings isbn 13 978 0871703613 isbn 10 0871703610 handbook of corrosion data materials

## *Handbook Of Corrosion Data Materials Data Series [PDF ...*

Corrosion handbook Corrosion handbook page 9 1.2.3. Crevice corrosion Crevice corrosion refers to corrosion occurring in cracks or crevices formed between two surfaces (made from the same metal, different metals or even a metal and a non-metal). This type of corrosion is initiated by the restricted entrance of oxygen

## *Corrosion handbook - Hilti*

The corrosion data in this section is mainly based on the results of general corrosion laboratory tests, which are not strictly comparable with actual service conditions. The corrosion tables provide an initial guide to the selection of materials and are intended to facilitate understanding of the different types of corrosion damage that can arise due to poor material selection.

## *Corrosion tables — Sandvik Materials Technology*

The first part contains summaries on the general corrosion characteristics of major metals and alloys in various corrosion environments. Information in the second part is organized alphabetically by chemical compound and the data for each corrosive agent/compound are presented in tabular form, which has been standardized throughout the book.

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Springer Handbook of Materials Data-Hans Warlimont 2018-07-27  
The second edition of this well-received handbook is the most concise yet comprehensive compilation of materials data. The chapters provide succinct descriptions and summarize essential and reliable data for various types of materials.

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The first part contains summaries on the general corrosion characteristics of major metals and alloys in various corrosion environments. Information in the second part is organized alphabetically by chemical compound and the data for each corrosive agent/compound are presented in tabular form, which has been standardized throughout the book.

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This article focuses on the corrosion behavior of various ferrous and nonferrous metals and alloys when exposed to a nitric acid environment. The ferrous and nonferrous metals and alloys discussed are carbon and alloy steels, stainless steels, aluminum alloys, titanium, zirconium alloys, niobium and tantalum, and nonmetallic materials.

*Corrosion by Nitric Acid | Corrosion: Environments and ...*  
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by guest reference for engineers, scientists, and students concerned with the use of materials in applications where reliability and resistance to corrosion are important. It updates the coverage of its

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predecessor, including coverage of:

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For a more complete presentation on the resistance of metals to corrosive media, the reader is referred to ASM's Handbook of Corrosion Data. Additional data are available in Corrosion Data Survey, 5th Edition, NACE, 1985.

*Corrosion Data - ASM International*

of corrosion is mainly found handbook corrosion data massuk lettogamma iccom handbook of corrosion data materials data series second printing april 1990 edition by bruce d craig editor 47 out of 5 stars 3 ratings isbn asm handbook revise the 1987 corrosion volume asm handbook volume 13a is the first fruit of their efforts they are also

This book makes it easy for you to find what effect environment has on the corrosion of metals and alloys. However, this volume offers information on additional environments including concrete, soil, groundwater, distilled water, sodium acetate and more. ThereAs also updated and expanded coverage of previously discussed environments as well as information on environments which deal with the dairy, food, brewing, aerospace, petrochemical and building industries. The environments are listed alphabetically. Each listing includes a general description of the conditions, a comment on the corrosion characteristics of various alloys in such a situation, a bibliography of recent articles specific to the environment, tables consolidating and comparing corrosion rates at various temperatures and concentrations for various alloys, and graphical information. Also included are summaries on the general corrosion characteristics of major metals and alloys.

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Cut corrosion losses by choosing suitable commercially available corrosion resistant materials. The index of approximately 5,000 corrosive agents will assist the reader in finding the appropriate corrosion resistant material.

This book serves as a reference for engineers, scientists, and students concerned with the use of materials in applications where reliability and resistance to corrosion are important. It updates the coverage of its predecessor, including coverage of: corrosion rates of steel in major river systems and atmospheric corrosion rates, the corrosion behavior of materials such as weathering steels and newer stainless alloys, and the corrosion behavior and engineering approaches to corrosion control for nonmetallic materials. New chapters include: high-temperature oxidation of metals and alloys, nanomaterials, and dental materials, anodic protection. Also featured are chapters dealing with standards for corrosion testing, microbiological corrosion, and electrochemical noise.

The DECHEMA Corrosion Handbook provides a comprehensive collection of knowledge which is unique both in scope as well as content. Corrosion data and the chemical resistance of all technically important metallic, non-metallic, inorganic and organic materials in contact with aggressive media are covered, constituting the prime information source worldwide for the selection of materials for equipment in which corrosive media are handled or processed. Furthermore, methods of corrosion protection and prevention are also described. Faced with the task of optimizing a given environment-material system, the user of this work will find answers to the following questions: Is there information available on the behavior of the material under consideration in a particular medium? Which materials are out of question for the proposed purpose? Which materials can be used without hesitation in the medium concerned? What are the conditions under which a less resistant, less costly material will give satisfactory service? Which

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material offers best performance for value under the given circumstances? What protective measures exist: inhibitors, coatings, cathodic protection, etc.? The influence of chlorinated hydrocarbons-chloromethanes on some 1250 materials, the effect of chlorinated hydrocarbons-chloroethanes on some 1200 materials and of alkanols on some 250 materials constitute the contents of this eighth volume. Unrivaled in the research and evaluation of the international pertinent literature, more than 1000 references to primary sources, 100 figures and 230 tables arranged by agents/environment represent the most detailed corrosion data available.

Reduce the enormous economic and environmental impact of corrosion Emphasizing quantitative techniques, this guide provides you with: \*Theory essential for understanding aqueous, atmospheric, and high temperature corrosion processes Corrosion resistance data for various materials Management techniques for dealing with corrosion control, including life prediction and cost analysis, information systems, and knowledge re-use Techniques for the detection, analysis, and prevention of corrosion damage, including protective coatings and cathodic protection More

The Corrosion Handbook - the most comprehensive source of corrosion data... The DECHEMA Corrosion Handbook represents a comprehensive collection of knowledge that is unique both in scope as well as content. It covers corrosion data and the chemical resistance of all technically important metallic, non-metallic, inorganic and organic materials in contact with aggressive media. Furthermore, it describes methods of corrosion protection and prevention. This makes it the prime information source worldwide for the selection of materials for equipment in which corrosive media are handled or processed. The Corrosion Handbook ... helps hold damage at bay Faced with the task of optimizing a given environment-material system, readers of this work will find answers



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primary sources, 100 figures and 230 tables arranged by agents/environment represent the most detailed corrosion data available.

This unique and practical book provides quick and easy access to data on the physical and chemical properties of all classes of materials. The second edition has been much expanded to include whole new families of materials while many of the existing families are broadened and refined with new material and up-to-date information. Particular emphasis is placed on the properties of common industrial materials in each class. Detailed appendices provide additional information, and careful indexing and a tabular format make the data quickly accessible. This book is an essential tool for any practitioner or academic working in materials or in engineering.

Nothing stays the same for ever. The environmental degradation and corrosion of materials is inevitable and affects most aspects of life. In industrial settings, this inescapable fact has very significant financial, safety and environmental implications. The Handbook of Environmental Degradation of Materials explains how to measure, analyse, and control environmental degradation for a wide range of industrial materials including metals, polymers, ceramics, concrete, wood and textiles exposed to environmental factors such as weather, seawater, and fire. Divided into sections which deal with analysis, types of degradation, protection and surface engineering respectively, the reader is introduced to the wide variety of environmental effects and what can be done to control them. The expert contributors to this book provide a wealth of insider knowledge and engineering knowhow, complementing their explanations and advice with Case Studies from areas such as pipelines, tankers, packaging and chemical processing equipment ensures that the reader understands the practical measures that can be put in place to save money, lives and the environment. The

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Handbook's broad scope introduces the reader to the effects of environmental degradation on a wide range of materials, including metals, plastics, concrete, wood and textiles. For each type of material, the book describes the kind of degradation that affects it and how best to protect it. Case Studies show how organizations from small consulting firms to corporate giants design and manufacture products that are more resistant to environmental effects.

The DECHEMA Corrosion Handbook provides a comprehensive collection of knowledge which is unique both in scope as well as content. Corrosion data and the chemical resistance of all technically important metallic, non-metallic, inorganic and organic materials in contact with aggressive media are covered, constituting the prime information source worldwide for the selection of materials for equipment in which corrosive media are handled or processed. Furthermore, methods of corrosion protection and prevention are also described. Faced with the task of optimizing a given environment-material system, the user of this work will find answers to the following questions: Is there information available on the behavior of the material under consideration in a particular medium? Which materials are out of question for the proposed purpose? Which materials can be used without hesitation in the medium concerned? What are the conditions under which a less resistant, less costly material will give satisfactory service? Which material offers best performance for value under the given circumstances? What protective measures exist: inhibitors, coatings, cathodic protection, etc.? This second volume covers the influence of hydrochloric acid on some 900 materials and the effect of nitric acids on some 750. Unrivalled in the research and evaluation of the international pertinent literature, more than 1400 references to primary sources, 230 figures and 300 tables arranged by agents/environment represent the most detailed corrosion data available.

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