

## PERFORMANCE PROPERTIES

Property	Nitrile (Buna-N)	Ethylene-Propylene (EPDM)	Silicone	Fluorocopolymer (Viton® A) 401C	Fluorocopolymer (Viton® GF) 4005	Fluorocopolymer (Viton® ETP) 6005	Teflon®	Silverback®	Kalrez®
Tensile Strength	Good	Good-Excellent	Good	Good-Excellent	Excellent	Excellent	Excellent	Excellent	Excellent
Electrical Properties	Poor	Excellent	Excellent	Good	Good	Good	Excellent	Excellent	Excellent
Weather Resistance	Good	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent
Ozone Resistance	Poor	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent
Heat Resistance	Good (225°F)	Excellent (275°F)	Excellent (450°F)	Excellent (450°F)	Excellent (450°F)	Excellent (450°F)	Excellent (450°F)	Excellent (450°F)	Excellent (500°F)
Cold Resistance	Good (-40°F)	Good-Excellent (-55°F)	Excellent (-80°F)	Good (-2°F)	Good (18°F)	Good (10°F)	Excellent (-110°F)	Good (-20°F)	Excellent (-110°F)
Steam Resistance	Excellent	Excellent	Good	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent
Tear Resistance	Good	Good	Good	Good	Good	Good	Excellent	Excellent	Good
Abrasion Resistance	Good	Good-Excellent	Good - Excellent	Good	Excellent	Excellent	Excellent	Excellent	Good
Acid Resistance	Poor - Good	Good-Excellent	Good	Good	Excellent	Excellent	Excellent	Excellent	Excellent
Petroleum Oil	Excellent	Poor	Good	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent
Flame Resistance	Poor	Poor	Poor	Good	Good	Good	Excellent	Excellent	Excellent
Vegetable Oil	Excellent	Good (Most)	Good (Intermittent)	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent

Buna-N is not recommended for use with CIP Sanitizing Agent OXONIA; use EPDM or Silicone.  
EPDM or Viton® is recommended for ozone treated water.

All of the above compounds used in our production meet the criteria set forth by the FDA.

# Gasket Materials Selection Guide

**S Ashworth**



## **Gasket Materials Selection Guide:**

**Materials Selection in Mechanical Design** Michael F. Ashby, 2024-09-13 Materials Selection in Mechanical Design Sixth Edition winner of a 2018 Textbook Excellence Award Texty describes the procedures for material selection in mechanical design to ensure that the most suitable materials for a given application are identified from the full range of materials and section shapes available Recognized as the world's leading materials selection textbook users will find a unique and innovative resource for students engineers and product industrial designers Selected revisions to this new edition ensure the book will continue to meet the needs of all those whose studies or careers involve selecting the best material for the project at hand Includes new or expanded coverage of materials selection in areas such as additive manufacturing biomedical manufacturing digital manufacturing and cyber manufacturing Includes an update to the hybrid chapter which has been enhanced with expanded hybrid case Presents improved pedagogy including new worked examples throughout the text case studies homework problems and mini projects to aid in student learning Maintains its hallmark features of full color presentation with numerous Ashby materials selection charts high quality illustrations and a focus on sustainable design

Gaskets, 1977 *Advanced Materials and Design for Electromagnetic Interference Shielding* Xingcun Colin Tong, 2016-04-19 With electromagnetic compliance EMC now a major factor in the design of all electronic products it is crucial to understand how electromagnetic interference EMI shielding products are used in various industries Focusing on the practicalities of this area *Advanced Materials and Design for Electromagnetic Interference Shielding* comprehensively

Rules of Thumb for Chemical Engineers Carl Branan, 2002 Fractionators separators and accumulators cooling towers gas treating blending troubleshooting field cases gas solubility and density of irregular solids Hundreds of common sense techniques shortcuts and calculations **Addendum to Material Selection Guidelines for Geothermal Energy**

**Utilization Systems** Carolyn S. Smith, 1983 Mechanical Engineers' Handbook, Volume 1 Myer Kutz, 2015-02-05 Full coverage of materials and mechanical design in engineering *Mechanical Engineers Handbook* Fourth Edition provides a quick guide to specialized areas you may encounter in your work giving you access to the basics of each and pointing you toward trusted resources for further reading if needed The accessible information inside offers discussions examples and analyses of the topics covered This first volume covers materials and mechanical design giving you accessible and in depth access to the most common topics you'll encounter in the discipline carbon and alloy steels stainless steels aluminum alloys copper and copper alloys titanium alloys for design nickel and its alloys magnesium and its alloys superalloys for design composite materials smart materials electronic materials viscosity measurement and much more Presents comprehensive coverage of materials and mechanical design Offers the option of being purchased as a four book set or as single books depending on your needs Comes in a subscription format through the Wiley Online Library and in electronic and custom formats Engineers at all levels of industry government or private consulting practice will find *Mechanical Engineers*

Handbook Volume 1 a great resource they'll turn to repeatedly as a reference on the basics of materials and mechanical design

**Heat Exchangers** Kuppan Thulukkanam, 2024-02-29 Heat Exchangers Mechanical Design Materials Selection Nondestructive Testing and Manufacturing Methods Third Edition covers mechanical design of pressure vessels and shell and tube heat exchangers including bolted flange joint design as well as selection of a wide spectrum of materials for heat exchanger construction their physical properties corrosion behavior and fabrication methods like welding Discussing the basics of quality control the book includes ISO Standards for QMS and references modern quality concepts such as Kaizen TPM and TQM It presents Six Sigma and Lean tools for heat exchangers manufacturing industries The book explores heat exchanger manufacturing methods such as fabrication of shell and tube heat exchangers and brazing and soldering of compact heat exchangers The book serves as a useful reference for researchers graduate students and engineers in the field of heat exchanger design including pressure vessel manufacturers Shipfitter 3 & 2 United States. Bureau of Naval Personnel, 1962

Recent Trends in Thermal and Fluid Sciences Debi Prasad Mishra, Ashok Kumar Dewangan, Achhaibar Singh, 2022-11-04 The book presents select proceedings of the International Conference on Mechanical Engineering INCOME 2021 It presents the topics related to thermal and fluid mechanics including various sources of energy The topics covered include theoretical and practical aspects of thermal and fluid systems and thermal design of the related equipment The book also includes latest topics such as solar energy computational techniques enhancement of energy storage capacity fluid solid interaction and hybrid energy systems The book will be a valuable reference for beginners researchers and professionals interested in research design and development in thermal and fluid sciences

**Engineering Economics and Economic Design for Process Engineers** Thane Brown, 2016-04-19 Engineers often find themselves tasked with the difficult challenge of developing a design that is both technically and economically feasible A sharply focused how to book Engineering Economics and Economic Design for Process Engineers provides the tools and methods to resolve design and economic issues It helps you integrate technical a

**HVAC and Chemical Resistance Handbook for the Engineer and Architect** Tom Arimes, 1994 The title is misleading until you check out the contents It is all about HVAC and more This compilation has organized data frequently used by Mechanical Engineers Mechanical Contractors and Plant Facility Engineers The book will end the frustration on a busy day searching for design criteria

**Seals and Sealing Handbook** Robert K. Flitney, 2011-04-18 Wherever machinery operates there will be seals of some kind ensuring that the machine remains lubricated the fluid being pumped does not leak or the gas does not enter the atmosphere Seals are ubiquitous in industry the home transport and many other places This 5th edition of a long established title covers all types of seal by application static rotary reciprocating etc The book bears little resemblance to its predecessors and Robert Flitney has re planned and re written every aspect of the subject No engineer designer or manufacturer of seals can afford to be without this unique resource Wide engineering market Bang up to date Only one near competitor now outdated Machinist's Mate 3 & 2

United States. Naval Education and Training Command,1978      **Machine Design** ,1929      *U.S. Industrial Directory* ,1989

**Inorganic Membranes for Separation and Reaction** H.P. Hsieh,1996-06-07 With the recent advent of commercial ceramic membranes inorganic membranes are receiving much attention as unique separators and reactors due to their excellent thermal and chemical stabilities This volume provides an extensive and integrated survey of the science and technology of inorganic membranes Various methods for making dense metal and solid electrolyte membranes and porous inorganic membranes with tortuous and nearly straight pores are provided These inorganic membranes ranging from ceramics to metals to inorganic polymers can be characterized by many techniques indicative of their separation performance under idealized as well as application conditions In addition to many commercial liquid phase applications inorganic membranes have been used industrially for gas diffusion and particle filtration and demonstrated for the important high temperature gas separation and membrane reactor applications Approximately half of the book is devoted to the subject of inorganic membrane reactors Useful data in many tables and figures and extensive literature and patent information are given throughout the book for further study The book is a valuable reference for researchers as well as process engineers who are involved in membrane and separation technology Chemical engineers chemists and material scientists should also find the text a comprehensible introduction to the subject      *Engineering Design Handbook* United States. Army Materiel Command,1963      *Bioprocessing Piping and Equipment Design* Mr. Rohit Manglik,2024-01-13 EduGorilla Publication is a trusted name in the education sector committed to empowering learners with high quality study materials and resources Specializing in competitive exams and academic support EduGorilla provides comprehensive and well structured content tailored to meet the needs of students across various streams and levels      *Enclosure and Sealing Methods* G. S. Wallace,1960 Several methods of obtaining an effective seal are described Information is presented which will facilitate the proper selection of method and materials compatible with design requirements It contains general information on sealing methods and materials Empirical data on specific materials and applications should be obtained from the Sandia Corporation Materials Standards Department      *Handbook of Membrane Separations* Anil Kumar Pabby,Syed S.H. Rizvi,Ana Maria Sastre Requena,2008-07-07 The Handbook of Membrane Separations Chemical Pharmaceutical and Biotechnological Applications provides detailed information on membrane separation technologies as they have evolved over the past decades To provide a basic understanding of membrane technology this book documents the developments dealing with these technologies It explo

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