

# O- Rings Material Comparison

	Nitrile (Buna-N)	Hydrogenated Nitrile	Ethylene Propylene	Fluorocarbon (Viton)	Neoprene (Chloroprene)	Butyl (isobutylene)	Silicone	Fluorosilicone	Polyacrylate	Styrene - Butadiene	Natural Rubber
ASTM Material Designator	NBR	HNBR	EPDM	FKM	CR	IIR	VMQ	FVMQ	ACM	SBR	NR
Material Relative Cost	\$	\$\$\$\$	\$	\$\$\$	\$	\$	\$\$\$	\$\$\$\$	\$\$\$	\$	\$
Compression Set	E	E	E	E	G	G	G	G	P	G	E
Resilience (Rebound)	G	G	G	G	G	F	G	G	F	G	E
Tear Strength	G	E	G	G	G	G	F	F	F	F	E
Heat Aging	F	G	G	E	F	G	E	E	E	F	F
Ozone	P	G	G	E	G	G	E	E	G	P	P
Oil & Grease	G	G	P	E	G	P	F	E	E	P	P
Fuel	P	F	P	G	P	P	P	G	E	P	P
Water Swell	G	G	E	G	F	G	E	E	P	E	E

# O Ring Material Selection Guide

**United States. Naval Facilities  
Engineering Command**



## **O Ring Material Selection Guide:**

*O-ring Installation for Underwater Components and Applications* C. J. Sandwith, 1982      **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      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      The ROV Manual Robert D Christ, Robert L. Wernli Sr, 2013-10-16 Written by two well known experts in the field with input from a broad network of industry specialists The ROV Manual Second Edition provides a complete training and reference guide to the use of observation class ROVs for surveying inspection and research purposes This new edition has been thoroughly revised and substantially expanded with nine new chapters increased coverage of mid sized ROVs and extensive information on subsystems and enabling technologies Useful tips are included throughout to guide users in gaining the maximum benefit from ROV technology in deep water applications Intended for marine and offshore engineers and technicians using ROVs The ROV Manual Second Edition is also suitable for use by ROV designers and project managers in client companies making use of ROV technology A complete user guide to observation class ROV remotely operated vehicle technology and underwater deployment for industrial commercial scientific and recreational tasks Substantially expanded with nine new chapters and a new five part structure separating information on the industry the vehicle payload sensors and other aspects Packed with hard won insights and advice to help you achieve mission results quickly and efficiently      **Practical Handbook of Biochemistry and Molecular Biology** Gerald D. Fasman, 1989-03-31 Methodologies and databases for biochemistry and molecular biology are included in this easy to use laboratory reference Its logical presentation enables the reader to quickly and conveniently locate the information relevant to his or her needs Featured are tables containing data on amino acids proteins nucleosides nucleotides and nucleic acids Also featured are lipids and physical chemical data Edited by a leading professional in the field this compact yet comprehensive bench manual serves as the definitive reference source for your laboratory      **Soil Survey of Reeves County, Texas** Hubert B. Jaco, 1980      *Seals and Sealing Handbook* Robert K. Flitney, 2014-06-13 *Seals and Sealing Handbook* Sixth Edition provides comprehensive coverage of sealing technology bringing together information on all aspects of this area to enable you to make the right sealing choice This includes detailed coverage on the seals applicable to static rotary and reciprocating applications the best materials to use in your sealing systems and the legislature and regulations that may impact your sealing choices Updated in line with current trends this

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**An Index of U.S. Voluntary Engineering Standards** United States. National Bureau of Standards,1971 **Index of Specifications and Standards** ,1960 Handbook of Suggested Practices for the Design and Installation of Ground-water Monitoring Wells Linda Aller,1991 *Design manual* United States. Naval Facilities Engineering Command,1974 **An Index of U.S. Voluntary Engineering Standards** William J. Slattery,1971

**Principles and Design of Mechanical Face Seals** Alan O. Lebeck,1992-04-16 Examines the fundamentals and practice of both the design and operation of face seals ranging from washing machines to rocket engine turbopumps Topics include materials tribology heat transfer and solid mechanics A variety of simple and complex models are proposed and evaluated and specific problems such as heat checking blistering and instability are considered Offers 64 tables and 364 references plus useful recommendations regarding the future of seal design *NBS Special Publication* ,1971 Seals and Sealing Handbook Ronald Horace Warring,1981

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**Engineering Design with SOLIDWORKS 2020**  
David Planchard, 2019-12 A comprehensive introduction to SOLIDWORKS using tutorial style step by step instructions Designed for beginning or intermediate SOLIDWORKS users Learn to create parts and assemblies using machined plastic and sheet metal components Also covers Simulation Sustainability and Intelligent Modeling techniques Includes bonus chapters on the CSWA exam and 3D printing Engineering Design with SOLIDWORKS 2020 is written to assist students designers engineers and professionals The book provides a solid foundation in SOLIDWORKS by utilizing projects with step by step instructions for the beginner to intermediate SOLIDWORKS user featuring machined plastic and sheet metal components Desired outcomes and usage competencies are listed for each project The book is divided into five sections with 11 projects Project 1 Project 6 Explore the SOLIDWORKS User Interface and CommandManager Document and System properties simple and complex parts and assemblies proper design intent design tables configurations multi sheet multi view drawings BOMs and Revision tables using basic and advanced features Additional techniques include the edit and reuse of features parts and assemblies through symmetry patterns configurations SOLIDWORKS 3D ContentCentral and the SOLIDWORKS Toolbox Project 7 Understand Top Down assembly modeling and Sheet Metal parts Develop components In Context with InPlace Mates along with the ability to import parts using the Top Down assembly method Convert a solid part into a Sheet Metal part and insert and apply various Sheet Metal features Project 8 Project 9 Recognize SOLIDWORKS Simulation and Intelligent Modeling techniques Understand a general overview of SOLIDWORKS Simulation and the type of questions that are on the SOLIDWORKS Simulation Associate Finite Element Analysis CSWSA FEA exam Apply design intent and intelligent modeling techniques in a sketch feature part plane assembly and drawing Project 10 Comprehend the differences between additive and subtractive manufacturing Understand 3D printer terminology along with a working knowledge of preparing saving and printing CAD models on a low cost printer Project 11 Review the Certified SOLIDWORKS Associate CSWA program Understand the curriculum and categories of the CSWA exam and the required model knowledge needed to successfully take the exam The author developed the industry scenarios by combining his own industry experience with the knowledge of engineers department managers vendors and manufacturers These professionals are directly involved with SOLIDWORKS every day Their responsibilities go far beyond the creation of just a 3D model

Mechanical Design Engineering Handbook Peter Childs, 2013-09-02 Mechanical Design Engineering Handbook is a straight talking and forward

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**Materials** ,1976      **World Index of Plastics Standards** Leslie H. Breden,United States. National Bureau of Standards,1971

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