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## **O Ring Material Selection Guide**

O-Ring Material Quick Reference Guide - Rubber Sealing Materials. O-ring material family chemical compatibility, temperature

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resistance, and other properties all factor in to o-ring material selection for an application. This popular o-ring material family comparison shows basic rubber material family properties and performance plastic properties. The guide includes generalized recommended o-ring material uses and non-recommended uses with typical material

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mechanical properties.

## **O-Ring Material Reference Guide - Rubber Materials**

An O-ring material selection guide. Posted on 19/05/2016

Category: O-Rings. O-rings are common seals used in many manufacturing industries. With such a broad range of materials available, it can be tricky to select the appropriate

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material for any given project. So Martin's Rubber has compiled this useful O-ring material selection guide, to give you a clear insight into the advantages and disadvantages of common O-ring materials.

## **O-ring material selection guide | O- ring material comparison**

Polyurethane (AU, EU)

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Static O-Ring Sealing. Failure Modes. Mobile inPHorm - Parker's Design Tool & O-Ring Calculator. Material Selection Guide. This section provides a brief review of the various elastomers currently available for use in Parker's O-rings and custom elastomeric seals. Service recommendations mentioned in this section are necessarily abbreviated.



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## **Material Selection Guide - Parker Hannifin Corporation**

O-Ring Material Selection Guide. This tool is meant to be used as a professional guide only. Because no two situations or installations are the same, these comments, suggestions, and recommendations are necessarily general and should not be

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relied upon by any purchaser without independent verification based on the particular installation or use.

## **O-Ring Material Selection Guide - Apple Rubber**

O-ring material compatibility is based on chemical family, temperature resistance, and other properties that are all factor into the o-ring

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material selection. This reference guide for O-Ring materials features a list of popular materials with standard recommendations and non-recommended uses for O-Rings with typical mechanical properties.

Commercial, Mil-Spec, OEM. More Resources and Quick Links. Shop our selection of popular brand O-Rings, like Alfas, Buna, EPR, Viton,

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## **O-Ring Material Compatibility | Material Selection Guide**

O-ring material selection is critically important for the success of your application. The o-ring material comparison chart below offers a quick reference of o-ring material performance. When you find one that fits

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your application, click on the o-ring material for a deeper dive on technical specifications to further assist you in o-ring material selection.

## **O-Ring Material Comparison & Selection Guide - Marco Rubber**

1 About this guide This document is divided into the following chapters: • Chapter 1, "O-Ring Materials"

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gives an overview of the common oilfield elastomers. • Chapter 2, “Selection Guide” is a chart used to select the proper material. • Chapter 3, “Common Failure Modes”, helps you to diagnose and prevent common failures.

## **O-Ring Selection Guide - DataCan**

Select O-Ring  
Compounds and Order  
Online From the

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World's Largest  
Inventory Network.  
Compare o-ring  
material properties to  
find and buy the best o-  
rings compatible with  
your application  
environment. Whether  
you need high  
temperature o-rings,  
low temperature o-  
rings, high pressure o-  
rings, or o-rings with  
excellent chemical  
resistance,  
allorings.com accesses  
the world's largest

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inventory network of high performance o-rings.

## **O-Ring Material Compound Compatibility Selection Guide**

available as the O-Ring eHandbook (interactive online version), ORD 5712 (US) and 5705 (Europe). Seal Design Software Parker's Mobile inPHorm™ and O-Ring Selector (advanced users) are



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web-based mobile applications designed to assist with material selection, fluid compatibility, gland/seal calculations and overall design analysis.

## **Parker O-Ring Material Offering Guide**

The ERIKS O-ring manual is a guide which assists you in the selection of the best O-ring out of the

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correct rubber compound in the right application. Technical Handbook | O-Ring Technical O-ring Handbook

## **Technical Handbook | O-Ring**

Primary considerations for O-ring material selection include chemical compatibility, application temperature compatibility, sealing pressure, durometer,

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size and cost.

Depending on the application, factors such as electrical properties, dynamic resistance, tear resistance and ozone resistance should also be considered.

## **EPDM Rubber & Other Common O- Ring Materials**

REFERENCE GUIDE FOR  
O-RING MATERIALS  
MATERIAL USE WITH  
DO NOT USE WITH

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COMMENTS NITRILE ( Buna-N ) Air, Water, Oils, Acetone, Lube Oil, Good Wear Resistance Auto/Aircraft, Duro: 70 Standard Fuels, Gasoline, Brake Good Compression Set Resistance Temperature: -35° To 250° Engine Coolant, LPG Fluids, Automatic Good Short-Term Resilience

**MATERIAL USE WITH  
DO NOT COMMENTS**

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## **USE WITH**

Parker Hannifin

### **Parker Hannifin**

The most widely used are the AMS, AS, AN, M, MS, MIL and NAS specifications. Check the Chemical Compatibility and Temperature charts and other information under Technical Information to make sure you get the best material for your application. Buna

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(Nitrile) - Buna is the most widely used O-Ring elastomer compound.

## **O-Ring Material Selection | Rocket Seals, Inc.**

The selection tool rates all Kalrez ® products in each industry in which Kalrez® is used.

Application temperatures and pressures can be input for more accurate product selection. The

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KAG can also assist in proper seal design for Kalrez® products in ten standard o-ring groove designs.

## **Elastomer Chemical Resistance Guide | Kalrez® Application**

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O-Ring Rubber Selection Guide What You Need to Know About O-Rings The temperatures it will be exposed to, especially if likely to involve

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extended periods below 0 ° F or over 200 ° F (-18 ° C -93 ° C); otherwise, it is unlikely that temperature ratings will be much of a factor.

## **O-Ring Rubber Selection Guide - Metro Industries Inc**

Parker's O-Ring Selector is an engineering tool which offers O-ring material and size selection combined in one tool.



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Both are interlinked, thus ensuring the best possible combination of the calculated O-ring size and material choice. The O-Ring Selector covers both imperial and metric standards.

## **Parker O-Ring Selector / Calculator**

O-Ring materials selection guide allows you to view oring material properties and resistances side by

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side.

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