

O-Ring Datasheet

Product Code: O-RINGS

Material	Shore Hardness	Standard Compound Working Temperature	FDA	WRAS	Peroxide Cured	USP	AED / Norsok	Metal Detectable
Nitrile (NBR)	40-90	-40°C to +110°C	●	●	●			●
Silicone (SIL)	30-90	-50°C to +204°C	●	●	●	●		●
Fluorocarbon (Viton®/FKM)	60-90	-20°C to +204°C	●		●	●	●	●
Ethylene Propylene (EPDM)	40-90	-55°C to +135°C	●	●	●	●		
Neoprene (CR)	40-90	-32°C to +149°C	●					
Hydrogenated Nitrile (HNBR)	70-90	-30°C to +150°C					●	
Fluorosilicone (F-SIL)	50-80	-55°C to +177°C						
Perfluoroelastomer (FFKM)	75-90	-10°C to +260°C	●		●	●	●	
Polyacrylate (ACM)	60-80	-10°C to +149°C						
Ethylene Acrylate/ Vamac® (AEM)	60-70	-40°C to +149°C						
Aflas® (TFE/P)	70-80	-9°C to +204°C						
Epichlorohydrin (ECO)	50-90	-40°C to +121°C						
Butyl (IIR)	60-70	-50°C to +121°C						
Natural Rubber (NR)	50-80	-50°C to +70°C						
Polyurethane (PU)	70-90	-40°C to +80°C						
Styrene Butadiene (SBR)	50-80	-45°C to +100°C						
Carboxylated Nitrile (XNBR)	70-80	-30°C to +150°C						



The information contained on this product information sheet is to be used as guidance. The advice is given in good faith and does not constitute any guarantee or recommendation for suitability. The Rubber Company cannot be held liable for any damage caused by incorrect installation. We hereby reserve the right to change the technical information herewith without notification or prior agreement.

USP CLASS VI:

Frequently sought after by end users, particularly in fields like medical and pharmaceutical processing, due to the enhanced assurance it offers regarding the quality and performance of the materials in use.

PEROXIDE CURE:

The majority of compounds typically undergo sulphur curing. However, certain materials (outlined in the above list) can be peroxide cured upon request.

COLOURS AVAILABLE:

Typically, black serves as the standard colour for most compounds, while red is employed for Silicone. Alternative colours are available upon request.

METAL DETECTABLE:

We also offer metal detectable compounds. Feel free to get in touch with us for further information.

WORKING TEMPERATURES:

To provide guidance, we've indicated the operational temperatures for our standard compounds. Should you need temperatures lower or higher than those indicated, we offer specially formulated compounds upon request. For instance, FFKM can accommodate high temperatures as extreme as -330°C.

Just provide us with the ID, cross section, and material specifications, and we'll take care of the rest.



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