

Material	Composition	Useful Temperature Range (in air)	Comments
<b>Nitrile (NBR)</b>	Acrylonitrile- butadiene polymer	-58° to +240° F (-50 to 115°C)	General service. Properties vary depending on Acrylonitrile content. Low temperature versions have limited hydrocarbon performance
<b>Natural Rubber (NR)</b>	Polyisoprene from plant sources	-50° to +220° F (-45 to 105°C)	Excellent low temp flexibility and tear/wear resistance. Poor resistance to hydrocarbons.
<b>Hydrogenated Nitrile sulphur cured (HNBR, HSN)</b>	Hydrogenated acrylonitrile-butadiene polymer	-13° to +260° F (-25 to 130°C)	General service. Improved wear and abrasion resistance. Lower chemical and thermal performance to peroxide cured grades
<b>Hydrogenated Nitrile peroxide cured (HNBR, HSN)</b>	Hydrogenated acrylonitrile-butadiene polymer	-13° to +320° F (-25 to 160°C)	General service. Improved wear and abrasion resistance. Low acrylonitrile grades available for use at -40°F (-40°C)
<b>Ethylene Propylene (EPR, EPDM)</b>	Ethylene propylene (diene) polymers	-40° to +250° F (-40 to 120°C)	Aqueous service. Not suitable for prolonged contact with hydrocarbons. Can be used in steam/hot water at 360°F (180°C)
<b>Carboxylated Nitrile (XNBR)</b>	Carboxylated Acrylonitrile-butadiene polymer	-13° to +250° F (-25 to 120°C)	Improved wear properties. Limited resistance to steam and hot water
<b>Fluorocarbon (FKM, FPM)</b>	Fluoroelastomer polymers	-10° to +430° F (-23 to 220°C)	Suitable for high temperature, aliphatic and aromatic hydrocarbons. Special low temperature grades available for use at -40°F (-40°C)
<b>Perfluorocarbon (FFKM)</b>	Perfluoroelastomer polymers	10° to 500°F (-12 to 260°C)	Highest thermal and chemical resistance. Some grades suitable for use at over 600°F (315°C)
<b>Aflas® (FEPM)</b>	Tetrafluoroethylene and propylene	40° to +440° F (5 to 225°C)	Suitable for high temperature and aggressive chemical environments including sour (H2S). Can be used in steam/hot water at 500°F (260°C)
<b>Polyurethane (AU, EU)</b>	Polyurethane	-10° to +200° F (-23 to 95°C)	Outstanding mechanical properties
<b>GAZGUARD®</b>	<b>FO&amp;GT Proprietary</b> , high performance RGD-resistant range of compounds using a range of polymer types	-40° to +410° F (-40° to 210°C) depending on grade	Ideal for high pressure gas applications. Tested and certified in gas and sour fluids in accordance with Norsok M-710

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