

Composite Seals	Metal Seals	Material	Temp Range (°F)	Hardness (Shore A)	Comments
Acrylonitrile - Butadiene (Nitrile, Buna-N) – NBR					
X		N0674-70	-30 to +250	70	General purpose
X		N0304-75	-60 to +225/250	75	Excellent low temperature
		N4400A75	-35 to +275	75	Peroxide-cured nitrile, excellent compression set resistance
		N4180A80	-30 to +275	80	General purpose, good compression set
		N1490-90	-30 to +250	90	General purpose
		NB194-90	-30 to +255	90	Low compression set, extrusion resistant
Hydrogenated Nitriles – HSN, HNBR					
X		N1173-70	-25 to +300/325	70	General purpose
		KA453-80	-25 to +300	80	Chemically resistant
		N1231-80	-25 to +300/325	80	Explosive decompression resistant
		KA183-85/N4031A85	-50 to +300	85	Excellent low temperature capability, Extrusion resistant, ED resistance, passes NACE TMO 187-98 standard
		N4288A85	-25 to +300	85	Excellent abrasion resistance, good compression set
		KB255-90	-25 to +300	90	General purpose
		KB163-90	-30 to +300	90	General purpose, explosive decompression resistant, certified to NORSOK M710
		KB164-90	-30 to +300	90	Extrusion resistant
		N4007-90/N4007A90	-25 to +300	90	Explosive decompression resistant, certified to NORSOK M710 & passes NACE TMO187-98 standard
Ethylene Propylene Rubber – EPDM, EPM, EP, EPR					
X		E0740-75	-70 to +250	75	Low compression set
		E0962-90/E4270A80	-60 to +250	90	Excellent steam to 500°F, explosive decompression resistant, resistant to CO ₂ , H ₂ S, methanol & glycols
Carboxylated Nitriles (Nitroxile™) - XNBR					
		NX507-70	-20 to +275	70	General purpose
		N4274A85	-20 to +275	85	Extreme low friction, internal lubricant for lower friction & excellent abrasion resistance
		N4263A90	-20 to +275	90	Excellent abrasion resistance
Fluorocarbon – FKM, FPM					
X		V1164-75	-15 to +400	75	General purpose, good compression set
		V0747-75	-15 to +400	75	General purpose
		V1260-75	-15 to +400	75	Very chemically resistant
		V1289-75	-55 to +400	75	Excellent low temperature performance
		V4205A75	-15 to +400	75	General purpose, excellent compression set resistance
		VP104-85	-15 to +400	85	Extrusion resistant, explosive decompression resistant
X		V0709-90	-15 to +400	90	General purpose
		V4208A90	-15 to +400	90	General purpose, excellent compression set resistance
		V1238-95	-15 to +400	95	Extrusion resistant, good compression set, explosive decompression resistant, Certified to NORSOK M710
		V4266A95	-15 to +400	95	General purpose
		VA275-95	-15 to +400	95	Extrusion resistant, good compression set, explosive decompression resistant
Perfluoroelastomer (Parofluor™, Parofluor Ultra™) – FFKM, FFFPM					
X		V8545A75	-15 to +550	75	Good compression set resistance, extreme chemical resistance & low leachables
		V8588-90	-5 to +572	90	High temperature resistance, broad chemical compatibility & explosive decompression resistance
Highly Fluorinated Elastomers (Hifluor™) – FKM					
		V3819-75	-15 to +400	75	Chemically resistant, low compression set
		V8534-90	-15 to +400	90	Chemically resistant, extrusion resistant
Tetrafluoroethylene - Propylene – TFE/P					
		VP102-80	15 to +450	80	Low compression set
		V1041-85	15 to +450	85	ED resistant, good in H ₂ S, certified to NORSOK M710 & passes NACE TMO187-98 standard
		V4276A85	-15 to +450	85	Improved compression set resistance, certified to NORSOK M710 & passes NACE TMO187-98 standard
		VP103-90	25 to +450	90	Extrusion resistant
		V4461A90	-15 to +450	90	Improved compression set resistance
Polyurethane (Elasto-Plastic Materials) – PU					
		P4300 Resilon™ HT	-65 to +275	90	Highest performing TPU, high temperature, low compression set, excellent rebound
		P4301 Resilon WR	-65 to +275	90	TPU-based, hydrolysis resistant (e.g., hot water, 195°)
		P4306 Resilon LF	-65 to +275	90	High performance, similar to P4300 with lower friction
		P4700	-50 to +225	90	Superior polyurethane, enhanced physical properties, improved compression set & rebound
		P4615 Molythane™	-65 to +200	90	General purpose polyurethane used in petroleum based fluids, high extrusion & wear resistance
Metal					
X		304 Stainless Steel	+800 max	N/A	Specification shown is for material in "strip" form
X		Alloy 718	+1,200 max	N/A	Specification shown is for material in "strip", "bar/forge" form
X		Alloy X-750	+1,200 max	N/A	Specification shown is for material in "strip" form
X		Hastelloy C-276	+1,400 max	N/A	Specification shown is for material in "strip", "bar/forge" form
X		Waspaloy	+1,600 max	N/A	Specification shown is for material in "strip" form
X		Haynes 25	+2,000 max	N/A	Specification shown is for material in "strip" form
X		316L Stainless Steel	-	N/A	Specification shown is in plate form

*Hardness Shore D per ASTM D2240
*Hardness Rockwell M per ASTM D785

Note: Composite seals include Gask-O-Seals, Integral Seals, Fastener and Fitting Seals