



HIGH PURITY GASKETS





Chemical Compatibility Polymer Reference Guide

CSKBIO POLYMER	Nitrile	Fluor-Elastomer	Platinum	Peroxide	Ethylene-	Fluor Ethylene	Poly Steel Polymer
	Elastomer		Cured	Cured	Propylene		
			Silicone	Silicone	Diene		
			Elastomer	Elastomer	Monomer		
CHARACTERISTICS							
ASTM D-1418 Designation	NBR	FKM	VMQ	VMQ	EPDM	PTFE	PTFE/316L
Common Trade Names	Buna-N	Viton Fluorel	Silastic Elastosil	Silastic Elastosil	Dutral Nordel	Teflon	
Typical Hygienic Industry Designate	U	SFY	RXPX	X	EPDM	G	GTS
Hygienic Color Code	RED	Yellow & White	Remains Clear	Pink	Green X3	Remains White	Remains Grey
Specific Gravity (Polymer)	1	1.8	1.1	1.1	0.85	2.13	2.25
Hardness Shore A Durometer (S)	30 – 95	80 OR 75	80 OR 70	70	70	55-Shore D	65-Shore D
Maximum Tensile (P.S.I.)	3000	2000	1200	1200	2500	4000	4600
Heat Resistance Intermittent	115° C	210° C	300° C	282° C	149° C	232° C	300° C
Continuous	99° C	193° C	255° C	237° C	127° C	204° C	275° C
Low Temperature Resistance	-54	-28	-65	-70	-57	-212	-223
Abrasion Resistance	G	G	F	F	F	F	F
Ozone Resistance	NR	E	E	E	E	E	E
Radiation (Gamma) Resistance	G	F	F	F	E	E	E
Recovery after Distortion	G	G	G	G	F – G	NR	F
Tear Resistance HOT	F	F	F	F	F	E	E
Tear Resistance COLD	F	F	F	F	G	E	E
Acids, Dilute	G	E	G	G	G	E	E
Alkalies	G	G	E	E	E	E	E
Alcohol, Glycols	E	G	E	E	E	E	E
Animal Oils & Fat	E	E	G	G	F	E	E
Soaps, Bleaches, Detergents	F-G	G	F	F	E	E	E
Steam	F	F	G	G	E	G	E
Vegetable Oils	E	E	E	E	G	E	E
Water	G	E	F	F	E	E	E