

6. Compound Selection - General

Table 3A-2 STANDARD ERIKS Compounds

Elastomer	Compound Number	Hardness °Shore A \pm 5	Temperature °C / °F	Application
Nitrile, NBR, Buna	36624	70	-35 to +110 °C -31 to +230 °F	Hydraulic Oils, Vegetable Oils, Animal Fats, Acetylene, Alcohols, Water, Air, Fuels and many other products
	47702	90	-25 to +110 °C -13 to +230 °F	Chemical resistance of 36624 with higher hardness for higher pressure applications.
	Various			ERIKS is pleased to offer special compounds for special applications on request.
Ethylene Propylene, EPDM, EPM	55914	70	-55 to +130°C -67 to +266 °F	Solvents, alcohols, ketones, esters, organic and inorganic acids, hydraulic fluids. Highly age resistant. Not recommended for animal fats, vegetable or mineral oils.
	55914PC	70	-50 to +150 °C -58 to +302 °F	Chemical resistance of 55914 with improved temperature range and compression set characteristics. Also for steam applications.
	55918PC	80	-50 to +150 °C -58 to +302 °F	Chemical resistance of 55914 with higher hardness for higher pressure applications.
	Various			ERIKS is pleased to offer special compounds for special applications on request.
Silicone, VMQ	714177	70	-55 to +230 °C -67 to +446 °F	For extremely high or low temperature range, air, oxygen, dry heat, ozone, hot water to 302 °F (150 °C), and glycol based brake fluids. Resistant to hydraulic fluids but is not resistant to many hydraulic fluid additives. Silicones and Fluorosilicones are recommended only for static applications.
Fluorosilicone, FVMQ	F70	70	-60 to +200 °C -76 to +392 °F	Chemical resistance as noted above, with additional resistance to fuels and paraffin based lubricants.
	Various			ERIKS is pleased to offer special compounds for special applications on request.
	51414 black and green	70	-15 to +210 °C +5 to +410 °F	Good chemical resistance to oils, fats, fuels. Has very low compression set characteristics at high temperatures. Suitable for vacuum applications.
Fluorocarbon, FPM (Viton ®)	514320 black and green	90	-15 to +230 °C +5 to +446 °F	Chemical resistance of 51414 with higher hardness for higher pressure applications.
	Various.			ERIKS is pleased to offer a lot more standard compounds for special applications on request.
Perfluorocarbon, FFKM, Kalrez ® Spectrum	6375	75	-50 to +316 °C -58 to +600 °F	Broadest range of chemical and temperature resistance for chemical processing industry. Recommended for acids, basics, amines, steam, ethylene oxide and many other aggressive chemicals.
Kalrez ®	4079	75	-50 to +316°C -58 to +600 °F	Excellent chemical and temperature resistance. Suitable for 95% of all perfluorinated applications.
FFKM, Kalrez ®	Various			ERIKS is pleased to offer special compounds for special applications on request.
Teflex® FEP PFA	FPM Core		-15 to +205 °C +5 to +400 °F	High thermal and chemical resistance. Not recommended for dynamic applications. Cannot be stretched in installation.
	VMQ Core		-60 to +205 °C -76 to +400 °F +260°C (PFA)	Chemical resistance of FPM with improved compression set characteristics at low temperatures. Not recommended for vacuum applications due to high gas permeability. Not for dynamic applications.

Note:

We have over 120 different compounds for specific applications. Ask for our datasheets.

6. Compound Selection - General

STANDARD ERIKS Compounds (Vulc-O-rings)

Elastomer	Hardness	Application °Shore A±5
Genuine Viton® A 60° Brown Black	60	Good chemical resistance to oils, fats, fuels. Has very low compression set characteristics at high temperatures. Suitable for vacuum applications.
Genuine Viton® A 75° Black Brown Green	75	Good chemical resistance to oils, fats, fuels. Has very low compression set characteristics at high temperatures. Suitable for vacuum applications.
Genuine Viton® A 90° Green Black	90	Good chemical resistance to oils, fats, fuels. Has very low compression set characteristics at high temperatures. Suitable for vacuum applications.
Genuine Viton® A 75° FDA white	75	Good chemical resistance to oils, fats, fuels. Has very low compression set characteristics at high temperatures. Suitable for vacuum applications. Food Quality FDA.
Genuine Viton® A 75° FDA black	75	Good chemical resistance to oils, fats, fuels. Has very low compression set characteristics at high temperatures. Suitable for vacuum applications. Food Quality FDA.
Silicone 75° FDA red Blue	75	For extremely high or low temperature range, air, oxygen, dry heat, ozone, hot water to 302 °F (150 °C), and glycol based brake fluids. Resistant to hydraulic fluids but is not resistant to many hydraulic fluid additives. Silicones and Fluorosilicones are recommended only for static applications. Food Quality FDA.
Fluorsilicone 75° Blue	75	Solvents, alcohols, ketones, esters, organic and inorganic acids, hydraulic fluids. Highly age resistant. Not recommended for animal fats, vegetable or mineral oils.
EPDM 75° black	75	Solvents, alcohols, ketones, esters, organic and inorganic acids, hydraulic fluids. Highly age resistant. Not recommended for animal fats, vegetable or mineral oils.
EPDM 60° black	60	Solvents, alcohols, ketones, esters, organic and inorganic acids, hydraulic fluids. Highly age resistant. Not recommended for animal fats, vegetable or mineral oils.
EPDM 75° FDA black	75	Solvents, alcohols, ketones, esters, organic and inorganic acids, hydraulic fluids. Highly age resistant. Not recommended for animal fats, vegetable or mineral oils. Food Quality FDA.
NBR 60° black	60	Hydraulic Oils, Vegetable Oils, Animal Fats, Acetylene, Alcohols, Water, Air, Fuels and many other products.
NBR 75° black	75	Hydraulic Oils, Vegetable Oils, Animal Fats, Acetylene, Alcohols, Water, Air, Fuels and many other products.
NBR 90° black	90	Hydraulic Oils, Vegetable Oils, Animal Fats, Acetylene, Alcohols, Water, Air, Fuels and many other products.
NBR 75° black FDA	75	Abrasion resistance.
HNBR 75° black	75	Better oil and temperature resistance than NBR.
HNBR 75° FDA black	75	Better oil and temperature resistance than NBR. Food Quality FDA.
PUR 75° black	75	Abrasion resistance.
AFLAS 75° black	75	Highly steam resistant up to 200°C / 392°F
AFLAS 90° black	90	Highly steam resistant up to 200°C / 392°F
Chloroprene 60° black	60	High ozone resistance.
Chloroprene 75° black	75	High ozone resistance.
Chloroprene 75° FDA black	75	High ozone resistance. Food Quality FDA.
Viton® GF 75° black	75	70% Fluor Viton® with highest chemical resistance.
Viton® GLT 75° black	75	Low Temperature Viton® compound
Viton® GFLT 75° black	75	Combination of GF and GLT
Viton® GFLT 75° Extreme black	75	Highest resistance in paint industry.