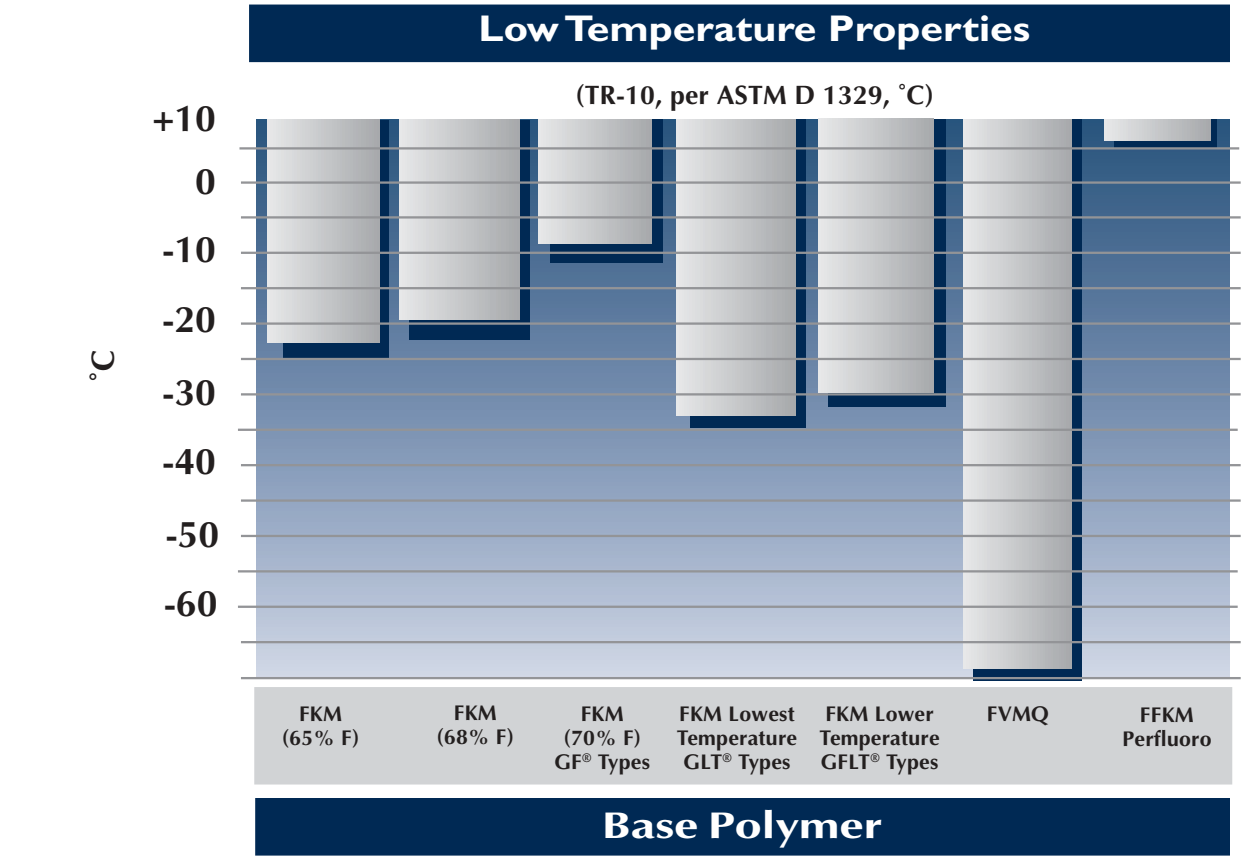
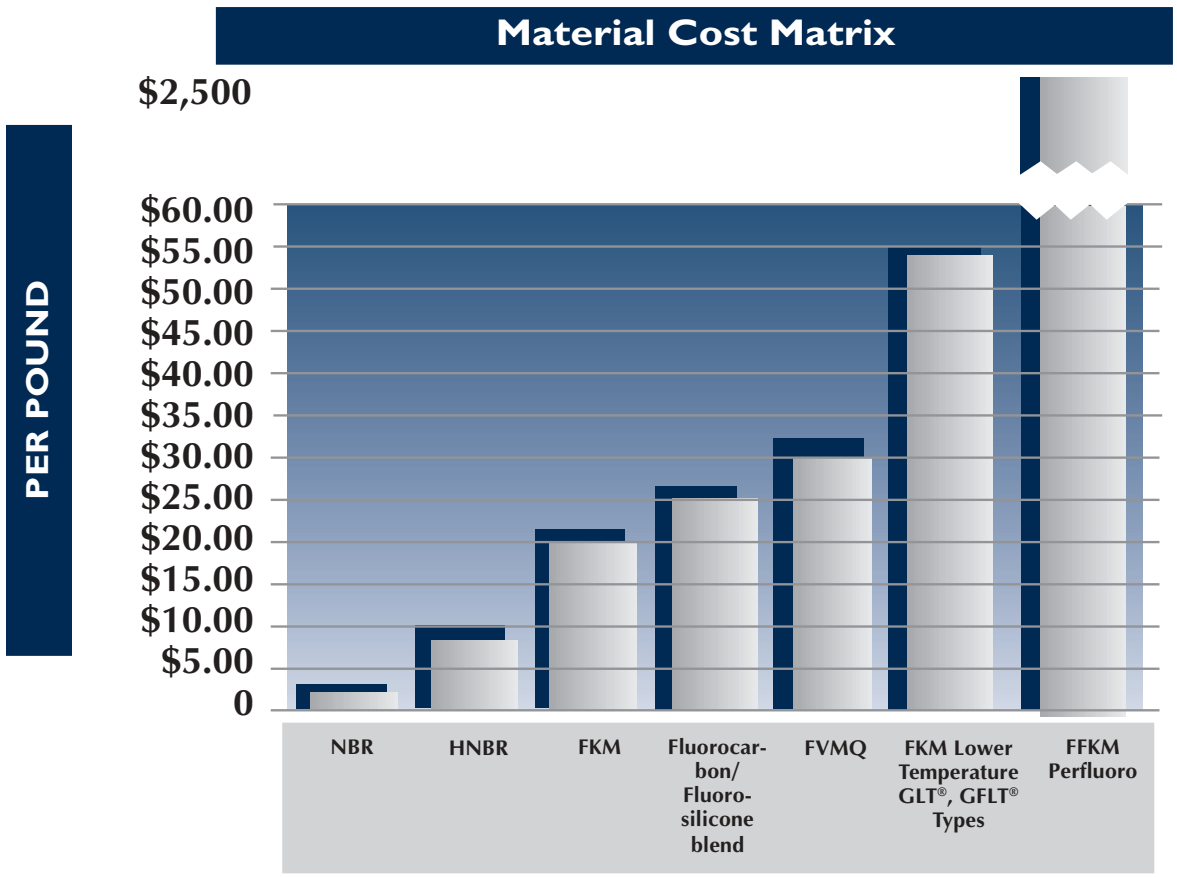


# VARIOUS ELASTOMERS

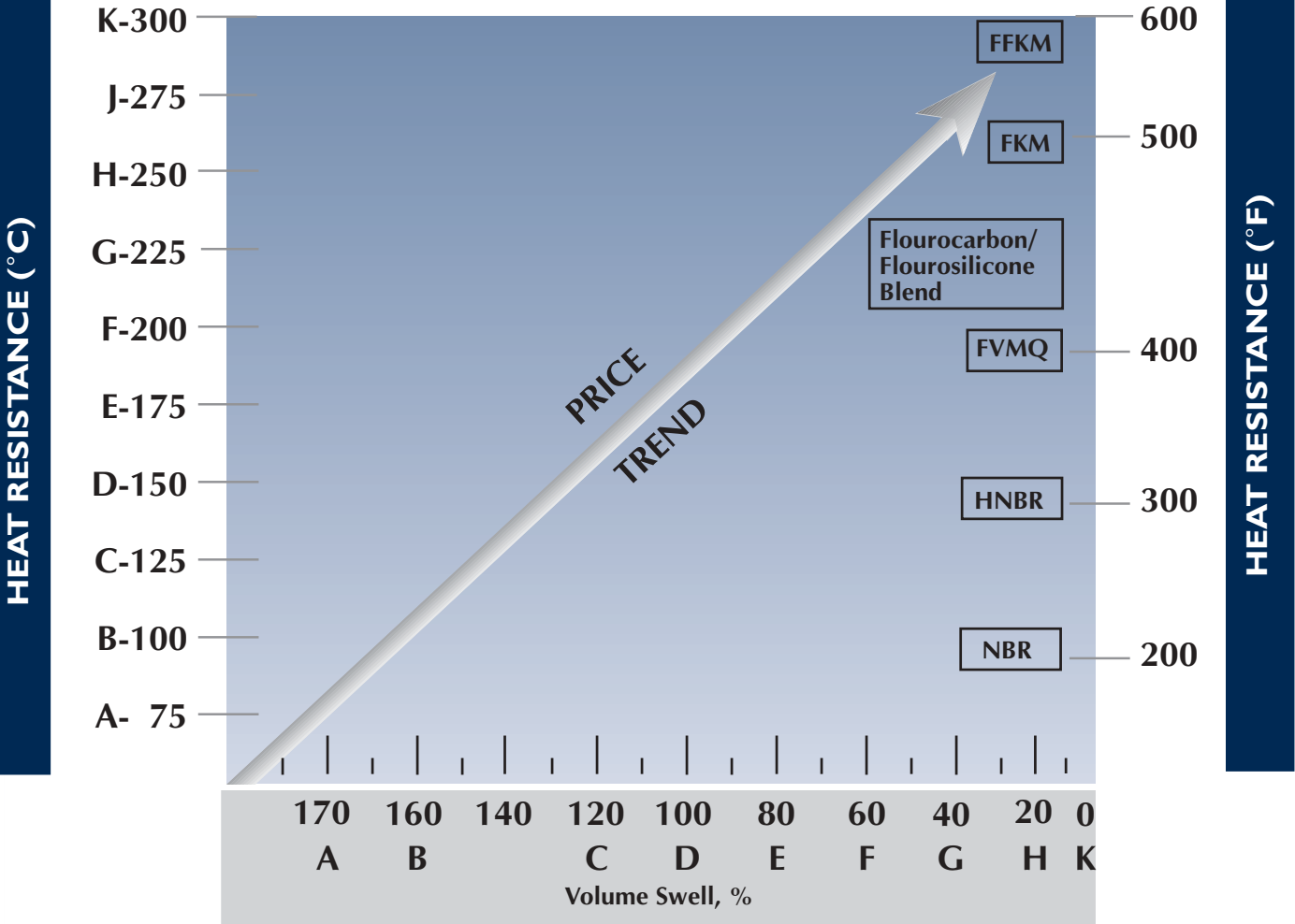


## Base Polymer

# VARIOUS FLUROELASTOMERS

## Heat & Oil Resistance

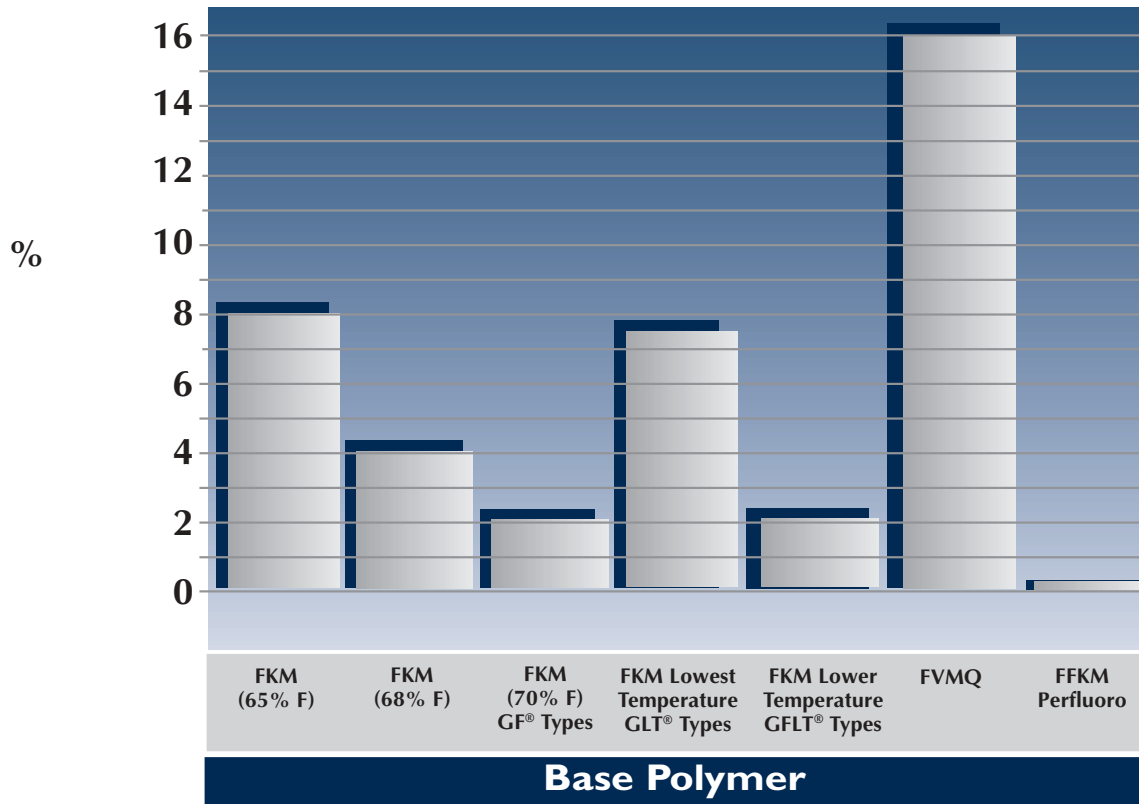
ASTM OIL RESISTANCE - IRM 903 (Per SAE J200/ ASTM D 2000)



# VARIOUS FLUOROELASTOMERS

## Volume Swell

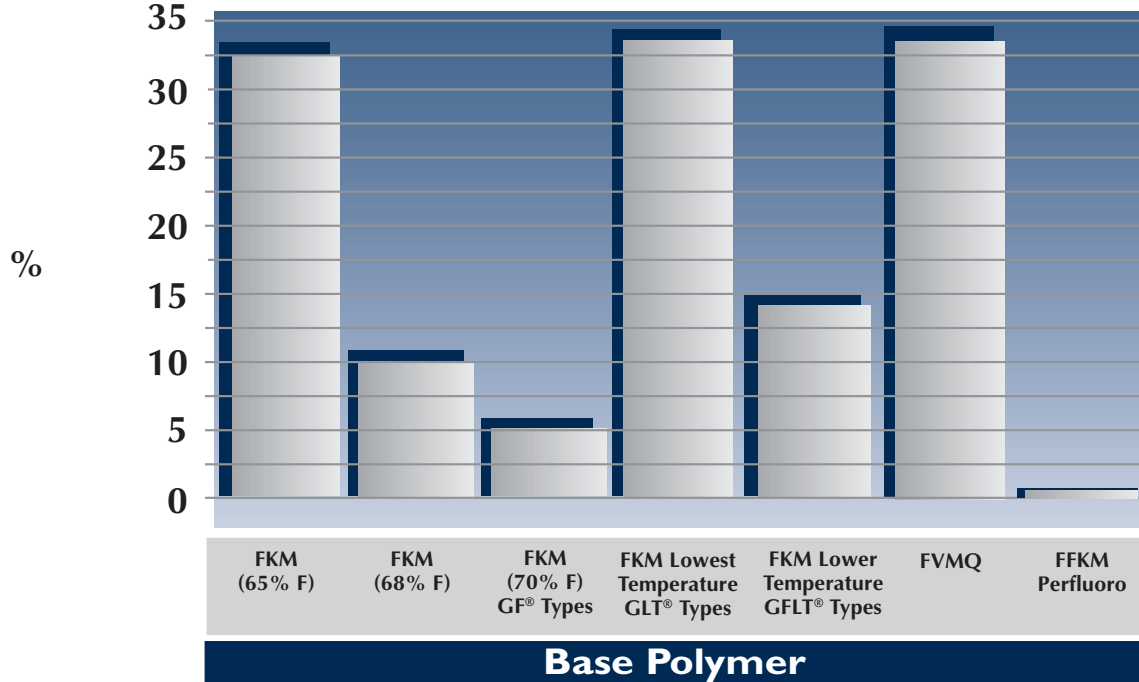
(70 hours @ 23° C in Oxidized Fuel per Ford FLTM AZ 105-01)



## Base Polymer

## Volume Swell

(70 hours @ 23° C in 15% Methanol / 85% Fuel "C")



## Base Polymer

## FUEL/TRANSPORTATION COMPOUND MATRIX

Compound	ASTM D 1329 TR10/°C	ASTM D 2137* Brittleness	ASTM D 471 Resistance in Methanol	ASTM D 395 Compression Set 22 Hours @ 200°C	Fuel Permeability** GM/M2/24 Hours/ Fuel C
G17 (L13430)	-65	Pass@-40°C	+5.4@24/RT	25.1	100
L54 (L13443)	-60	Pass@-40°C	+5.2@24/RT	24.2	100
F52 (F13661)	-24	Pass@-40°C	+32@24/RT	32.7	60
F75 (F13664)	-15	Pass@-25°C	+100@24/RT	12.7	6
F05 (F13705)	-29	Pass@-40°C	+134@24/RT	12	6
F84 (F13717)	-16	Pass@-25°C	+108@24/RT	10.6	6
F07 (F13723)	-24	Pass@-35°C	+7@24/RT	21.1	2
F79 (F13724)	-29	Pass@-40°C	+89.9@24/RT	13.8	6
F85 (F13727)	-25	Pass@-35°C	+97@24/RT	21.7	6
F86 (F13728)	-11	Pass@-20°C	+3@24/RT	22.1	2
F77 (F13729)	-21	Pass@-36°C	+3.4@24/RT	28.2	2
F78 (F13731)	-23	Pass@-40°C	+3.3@22/RT	19.4	2
F43 (F13742)	-13	Pass@-30°C	+2.7@70/RT	11.8	6
F51 (F13751)	-23	Pass@-30°C	+58@24/RT	13.5	4
F48 (F13753)	-15	Pass@-30°C	+60@24/RT	15	6
F56 (F13756)	-11	Pass@-20°C	+3@24/RT	21	2

\* Actual brittleness point may be lower than reported.

\*\* Permeability based on commercially available data for polymer type, not actual compound test.

# FUEL/TRANSPORTATION COMPATIBILITY MATRIX

Compound	Gasoline/ Fuel C	Gasoline/ Ethanol Blends	Gasoline/ Methanol Blends	100% Methanol	Gasoline/ MTBE Blends
G17 (L13430)	0	0	0	+	0
L54 (L13443)	0	0	0	+	0
F52 (F13661)	0	0	0-	—	0
F75 (F13664)	+	0	-	—	+
F05 (F13705)	+	0	-	—	+
F84 (F13717)	+	0	-	—	+
F07 (F13723)	+	+	0	+	+
F79 (F13724)	+	0	-	—	+
F85 (F13727)	+	0	-	—	+
F86 (F13728)	+	+	+	+	+
F78 (F13731)	+	+	0	+	+
F43 (F13742)	+	+	+	+	+
F51 (F13751)	+	+	0	-	+
F48 (F13753)	+	0	-	-	+
F56 (F13756)	+	+	+	+	+

## LEGEND

SWELL

- + = Less than 10%
- 0 = 10-25%
- = 25-100%
- = Above 100%