

ELASTOMER SELECTION GUIDE

Elastomer Name	Elastomer Type (ISO)	Application	Temperature Limit*		Chemical Resistance**					Mechanical Properties	
			F	C	H ₂ S	CO ₂	IRM 903	Fuel B	Water	Wear Resistance	Hardness (shore A)
HN60	High Nitrile (NBR)	Very Good oil and water resistance	176	80	5	3	4	3	5	5	60
		Excellent mechanical and dynamic properties									
		Excellent wear resistance									
HN70	High Nitrile (NBR)	Very Good oil and water resistance	230	110	4	4	4	4	5	4	70
		Excellent mechanical and dynamic properties									
		Very good wear resistance									
FK80	Perfluorocarbon (FKM)	Excellent oil resistance	212	100	3	2	5	5	5	2	80
		Good mechanical and dynamic properties									
		Fair wear resistance									
HH80	Hydrogenated Nitrile (HNBR)	Very Good oil resistance	302	150	5	3	3	4	4	3	80
		Good mechanical and dynamic properties									
		Good wear resistance									

* Fluid Temperature rating is for elastomer only. Limitations may occur due to bonding system depending on Fluid Composition.

** Limitations may occur at extreme levels under specific operating conditions.

Based on ISO 16136-1 testing and field performance. Contact your MANTL Representative for additional information.

5
Excellent

4
Very good

3
Good

2
Fair

1
Poor

