

## Seat Material Guide

DESC. OF TYPES	TYPES OF SEATS								
	ALL SEASON NITRILE		EPDM	VITON®	SILICONE	BUNA-N		TEFLON® EPDM	TEFLON® VITON
SURE SEAL COMPOUND NUMBER	700	701	515	540	561	570	571	650	654
COMMON NAMES	Special formulation of nitrile for dry bulk & other abrasive services		EPT, EPR	Fluro-Elastomer	None	NBR, Nitrile		PTFE (See EPDM)	PTFE (See Viton)
COLOR	Black	White	Black	Black	White	Black	White	Black/White PTFE Bonded to EPDM	Black/White PTFE Bonded to Viton
CHEMICAL TYPE	Special Nitrile Blend		Ethylene-Propylene-Diene-Monomer	Fluorinated Hydro-carbon	Poly-siloxane	Nitrile Butadiene		Poly-Tetra-Fluoro-Ethylene	Poly-Tetra-Fluoro-Ethylene
TEMP RAT-ING	-40°F to +300°F	-40°F to +300°F	-40°F to +250°F	0°F to +350°F	-50°F to +350°F	0°F to +212°F	-20°F to +180°F	-20°F to +300°F	-10°F to +400°F
GENERALLY SUITABLE FOR:	Used for Abrasion Resistance Approaching That of Urethane. Very Resistant to Extrusion at High Pressures. Used in Petroleum Oils & Water.		Less than 10% acids-inorganic & organic, alcohols, alkaline salts & solutions, dry bulk, water <b>NOT SUITABLE FOR:</b> Hydrocarbons	All Aromatic, Aliphatic & Halogenated Hydrocarbons <b>NOT SUITABLE FOR:</b> Ketones, Esters or in combination with Hot Water & Oil	Used primarily on High Temp Applications. Usually Hot Air. <b>NOT SUITABLE FOR:</b> Over 50PSI, Due to Low Physical & Mechanical Properties	General Applications & Hydrocarbon Service, less than 40% Aromatic Food & Beverage Applications		For Highly Oxidizing Acids (Nitric, Sulfuric). & Alkalis. <b>NOT SUITABLE FOR:</b> Abrasive Service, or Hydrocarbon Service	High corrosion resistance, material conforms to the mating surface. Improves wear resistance and reduces friction

Sure Seal Seat Chart is to be used only as a guide in selecting the most satisfactory combination of elastomers for resistance to various chemical solutions. It must be stressed that this information is offered only as a guide, and because of variables in actual service conditions, the accuracy of the ratings cannot be guaranteed. Actual service life can be determined only by the user evaluation the elastomers in actual service conditions.

This chart should be used as a GENERAL GUIDE for a particular group of compounds. It does not mean that the seat rating necessarily applies to every possible compound that could be classified in the group.