

## **Butterfly Valve Seat Material Properties**

Property		EPDM	NEOPRENE	VITON	SILICONE
Temperature		-55°-275°F	-40°-225°F	-20°-400°F	-80°-450°F
Resistance to	Acid	Good-Excellent	Good	Good	Good
	Alkali	Good-Excellent	Fair-Good	Poor-Good	Poor-Good
	Petroleum Oil	Poor	Excellent	Excellent	Good
	Vegetable Oil	Good	Good	Excellent	Good
	Abrasion	Good-Excellent	Good	Good	Good-Excellent
Сс	ompression Set	Fair	Good	Good-Excellent	Good-Excellent

Seat Material	General Application	Temperature Range	Environments Not Recommended
NITRILE	Hydrocarbons with less than 40% of aromatics, natural gas, air, H2O,	14°F to 176°F	solvents, benzene, xylene
BUNA-N (NBR)	sea water, brine, alcohols, glycols (food grade available)	-10°C to 80°C	
EPDM	H2O, steam, air, brine, abrasives,	-4°F to 250°F	hydrocarbons, oils, fats, dry air
	phosphates, esters, ketones, alkali, food compounds, liquids & solids,	-20°C to 120°C	
HIGH TEMP	diluted inorganic acids, caustic soda	-4°F to 300°F	
EPDM	(food grade available)	-20°C to 148°C	
Hypalon (CSM)	Oxidizing acids, chromic acid, hydrofluoric acid, sulphur based	0°F to 212°F	steam, ketones, hot air, nitric acid
	acids, sodium hypoclonte, ozone	-18°C to 100°C	
Silicone	Beverages, food	-22°F to 300°F	hydrocarbons, solvents, steam
Silicone	beverages, 1000	-30°C to 150°C	
Fluoroelastomer	Hydrocarbons with high concentration of aromatics, mineral	0°F to 400°F	steam, ketones, amines, esters, alkali
(FKM) (VITON® or Fluorel®)	and halogenated acids, phosphoric acid, aliphatic and aromatic ethers	-18°C to 205°C	
		-4°F to 212°F	ketones, concentrated acids, solvents for paint
Neoprene (CR)	Oils, diluted mineral acids, alkali, fats	-20°C to 100°C	
Natural	Abrasive products	-40°F to 176°F	steam, oils, hydrocarbons
Rubber	Abrasive products	-40°C to 80°C	
	Company and usta a shart-	-4°F to 250°F	abrasive products, fluorine gases, alkaline metals
PTFE/EPDM	Corrosive products, solvents	-20°C to 120°C	

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