

# AVAILABLE SEAT MATERIALS

DESCRIPTION OF TYPES	TYPES OF SEATS						
	BUNA -N	EPDM	CHLOROBUTYL	WHITE BUNA-N	VITON	TFE/BUNA-N	TFE/EPDM
ABZ CODE NUMBER	215	216	217	218	220	221	222
COMPOUND NUMBER	1070 - 70 FDA Service	3070 - 70 Water and Chemical Service	7070 - 70	1070 - 70 FDA Service	8070 - 70	None	None
COMMON NAMES	NBR, Nitril Buna-N, Hycar	EPDM, EPT, Nordel	Chlorobutyl, Chlorinated Butyl	NBR, Nitril Buna-N, Hycar	Fluoro Elastomer	None	None
ABZ IDENTIFICATION	White dot in seat	Green dot in seat	Yellow dot in seat	All white seat	Blue dot in seat	White dot in seat/white TFE	Green dot in seat /white TFE
COLOR OF SEAT	Black	Black, White option	Black	White	Black	White Teflon-black Buna-N	White teflon-black EPDM
CHEMICAL TYPE	Nitrile Butadiene	Ethylene Popylene Diene Monomer	Copolomer of ISO Butylene Isoprene	Nitril Butadiene	Fluorinated Hydrocarbon	Teflon bonded to Nitrile Butadiene	Teflon bonded to EPDM
ASTM - SAE	NBR (Classification SB-good oil resistance)	EPDM (Classification R -not tobe used in petroleum based fluids service	IIR (Not to be used with petroleum based fluids)	NBR (Classification SB-good oil resistance)	None	None	None
HARDNESS (SHORE - A)	65 - 70	65 - 70	65 - 70	65 - 70	72 - 75	N/A	N/A
TEMPERATURE RATING	0 F thru 212 F	-20F thru 250F	-40F thru 250F	0 F thru 212 F	0 F thru 350 F	0 F thru 250 F	0 F thru 275 F
GENERAL APPLICATION	Food and Beverage. Compounded to conform with FDA regulations. Minimum taste and odor. Sanitary and hydrocarbon service (Maximum aromatics 40%)	ACIDS - Inorganic Hydrochloric, Sulfuric (Dilute less than 10%). ACIDS - Acetic, Citric (Diluted less than 10%). Organic. ALCOHOLS - Ethyl, Methyl, Ethylene, Glycol. ALKALINE SALTS & SOLUTIONS, - Sodium Phosphate, Sodium Hydroxide. DRY MATERIALS Sugar, Flour, cement, Plastics. SALTS - Neutral, Calcium Chloride, Sodium Nitrite. WATER - Colling, Chilled, Brackish, Salt.	Compounded for aqueous food applications where FDA regulations apply. ACIDS - Sulfuric, Hydrochloric, Inorganic (Dilute less that 10%). Not Nitric. ACIDS - Acetic, Citric Only (Dilute less than 10%), Organic. ALCOHOLS - Glycol, Ethylene, Ethyl, Methyl. ALKALINE SOLUTIONS - Sodium PHosphate. DRY BULD MATERIALS - Flour, Sugar, Cements, Plastics. SALTS - Neutral Calcium Chloride, Sodium Nitrate. SALTS - Acidic Zinc Chloride, Alum. WATER - Cooling, Sea, Chilled, Brackish	Food and Beverage. Compounded to conform with FDA regulations. Minimum taste and odor. Sanitary and hydrocarbon service (Maximum aromatics 40%)	All aromatics, aliphatic and halogenated hydrocarbons. <b>NOT suitable</b> for ketones, esters or hot water and oil combinations.	Application where elastomer seats are required, but are chemically unsuitable for high aromatic hydrocarbons (40% or more).	Application where elastomer seats are required, but are chemically unsuitable for high aromatic hydrocarbons (40% or more).
NOTES		Not suitable for hydrocarbon service.	Not suitable for food which contains vegetable or animal oils			Not suitable for abrasive service	Not suitable for abrasive service

**IMPORTANT :** ABZ Manufacturing, Inc., stresses tht the above information should serve only as a guide. Because of variables in actual service conditions, accuracy of ratings cannot be guaranteed. The chart is inteded to be used as **GENERAL REFERENCE** for a particular group of compounds, and does not necessarily apply to every possible compound that could be classified in the group. The chart is intended to serve as an aid in selecting the most satisfactory combination of elastomers for resistance to various chemical solutions.

**NOTE:** Minimum and Maxium temperatures are for intermittent service. The pressure ratings of the valve should be reduced if placed in continual service at these temperatures.