

Elastomer Guide

BUNA-N

Suitable for:

- Excellent resistance to petroleum products
- Water
- Generally resistant to any hydrocarbons, fats, oils, greases, hydraulic fluids ethylene glycol and chemicals

Not Suitable for:

- Acetone, Ketones, strong acids, ozone, brake fluid, phosphates, esters, carbon tetrachloride, trichloroethylene and phosphate ester hydraulic fluid

Temperature Range: 0°F to 200°F
(-18° to 93°C)

For Series 87-88: 14°F to 176°F
(-10° to 80°C)

EPDM

Suitable for:

- Excellent resistance to low pressure steam 30psi max (207 kPa), hot and cold water
- Generally resistant to animal and vegetable oils, ozone, strong and oxidizing chemicals
- Phosphate ester hydraulic fluid. Good for dilute acids (ph 5-7) and alkalies, brake fluid and ketones (MEK acetone)

Not Suitable for:

- Petroleum, oils, Di-ester based lubricants, aromatic hydrocarbons, mineral oils, solvents

Temperature Range: -40°F to 275°F
(-40° to 135°C)

For Series 87-88: 5°F to 248°F
(-15° to 120°C)

HYPALON®

Suitable for:

- Excellent resistance to moderate chemicals, acids, ozone, fats, greases and solvents

Not Suitable for:

- Strong, oxidizing acids, esters, ketones, chlorinated, aromatic and nitro hydrocarbons. Not recommended for steam service

Temperature Range: -40° to 250°F
(-40° to 121°C)

VITON®

Suitable for:

- Excellent resistance to chemicals at elevated temperatures including aliphatic, aromatic and halogenated hydrocarbons, animal and vegetable oils
- Good for most gasoline, fuel, solvents, petroleum, oils and ozone

Not Suitable for:

- Steam, ketones, hot hydrofluoric acid, anhydrous ammonia, low molecular weight esters and nitro containing compounds

Temperature Range for phenolic 2"-12" (50-300mm): 0°F to 275°F (-18° to 135°C)

For Series 87-88: 4°F to 302°F
(-15° to 150°C)

TEFLON® ON BUNA BASE

Suitable for:

- Excellent resistance to high temperature, oils, acids, solvents, and most chemicals

Not Suitable for:

- Fuming acids, gases or cryogenic service

Temperature Range: -10°F to 200°F
(-23° to 93°C) Continuous

NEOPRENE

Suitable for:

- Generally resistant to moderate chemicals and acids, ozone, oils, fats, greases, and solvents

Not Suitable for:

- Strong, oxidizing acids, esters, ketones, chlorinated, aromatic and nitro hydrocarbons

Temperature Range: -60° to 200°F
(-51° to 93°C)

RESILIENT SEAT COMPARISON DATA*	RATING 1=EXCELLENT, 2=GOOD, 3=FAIR, 4=POOR					
	BUNA	EPDM	HYPALON	VITON	TEFLON	NEOPRENE
PHYSICAL PROPERTIES						
Tensile	2	2	3	3	N/A	1
Elongation	2	2	3	3	N/A	2
Compressions Set	2	3	2	1	N/A	2
Resilience	2	2	2	3	3	2
Electrical Resistivity	4	1	2	2	N/A	3
MECHANICAL RESISTANCE						
Tear	2	4	2	3	2	2
Abrasion	1	2	2	2	4	2
Cut Growth	2	2	2	3	4	2
TEMPERATURE						
Heat	2	1	1	1+	1	3
Low Temperature	3	2	2	4	2	3
ENVIRONMENTAL RESISTANCE						
Water	1	1	2	2	1	2
Acid	2	1	1	1	1	3
Alkali	2	1	1	3	1	3
Aliphatic Hydrocarbons	1	4	2	2	1	4
Aromatic Hydrocarbons	2	3	1	1	1	4
Chlorinated Solvents	4	4	1	3	1	4
Ketones	4	1	3	4	1	4
Alcohol	1	4	2	1	1	4
Lubricating Oils	1	4	4	2	1	4
Synthetic Oils	2	3	4	2	1	4
Hydraulic Oils	3	2	2	2	1	4
Fuels	1	4	3	1	1	4
Weather	2	1	1	1	1	2
Oxidation	2	2	1	1+	1	2
Ozone	4	1	1+	1+	1	3

ISO 9001-2008
CERTIFIED



USA: St. Pauls, NC • Tel. 1-800-334-6259 • Fax 1-800-421-6772 • www.muellersteam.com

S-MS-ElastomerGuide 1020

Mueller Steam Specialty™

A Watts Water Technologies Company

© 2010 Mueller Steam Specialty