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GASKET MATERIALS USED FOR DUCTILE IRON PIPE IN WATER AND SEWAGE SERVICE

<u>Description</u>	Maximum Service Temperature (°F) ^{1, 2}			<u>Uses³</u>
	Water & Sewer	Air ^{4,5}		
	Push-On & Mechanical Joint Gaskets	Push-On Joint <u>Gaskets</u>	Mechanical Joint Gaskets	
SBR (Styrene Butadiene)	150°	150°	125°	<u>Common:</u> Drinking Water, Sea Water, Sanitary Sewage, Reclaimed Water, Raw Water, Storm Water
EPDM (Ethylene Propylene Diene Monomer)	212°	200°	150°	<u>Common:</u> Alcohols, Dilute Acids, Dilute Alkalis, Ketones (MEK, Acetone), Vegetable Oil. <u>Other Acceptable Services:</u> Drinking Water, Sea Water, Sanitary Sewage, Reclaimed Water, Raw Water, Storm Water
Nitrile (NBR) (Acrylonitrile Butadiene)	150°	150°	125°	<u>Common:</u> Hydrocarbons, Fats, Oils, Greases, Chemicals, Oils & Fluids, Refined Petroleum. <u>Other</u> <u>Acceptable Services:</u> Drinking Water, Sanitary Sewage, Reclaimed Water, Raw Water, Storm Water
Neoprene® (CR) (Polychloroprene)	200°	180°	150°	<u>Common:</u> Greasy Waste. <u>Other</u> <u>Acceptable Services:</u> Sea Water, Sanitary Sewage, Reclaimed Water, Raw Water, Storm Water
Viton®; Fluorel® (FKM) ⁶ (Fluorocarbon)	212°	300°	300°	Common: Aromatic Hydrocarbons and Fuels, Acids, Vegetable Oils, Petroleum Products, Chlorinated Hydrocarbons, Most Chemicals and Solvents. Other Acceptable Services: Drinking Water, Reclaimed Water, Raw Water, Storm Water

¹Maximum service temperatures listed are intended as general guidelines for ductile iron pipe gaskets. For service temperatures greater than those listed, consult pipe manufacturer for specific recommendations.

²Maximum service temperature is not usually a meaningful parameter for piping gaskets; however, low temperatures during pipeline installation may necessitate precautions. Consult pipe manufacturer for pertinent recommendations.

³Water, including sewage, with low levels of the listed contaminants.

⁴Lubricating oil in the air will adversely affect SBR and EPDM performance.

⁵SBR, Nitrile, or Neoprene are not recommended for air exposure in wastewater treatment systems.

⁶Consult pipe manufacturer for availability of FKM push-on gaskets.