



Ductile Iron Pipe  
Research Association

**Strength** and **Durability** for **Life**<sup>®</sup>

FEATURES

# Gasket Materials Used For Ductile Iron Pipe in Water and Sewage Service

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Description	Maximum Service Temperature (°F) <sup>1, 2</sup>			Uses <sup>3</sup>
	Water & Sewer Push-On & Mechanical Joint Gaskets	Air <sup>4, 5</sup> Push-On Joint Gaskets	Mechanical Joint Gaskets	
SBR (Styrene Butadiene)	150°	150°	125°	<b>Common:</b> Drinking Water, Sea Water, Sanitary Sewage, Reclaimed Water, Raw Water, Storm Water
EPDM (Ethylene Propylene Diene Monomer)	212°	200°	150°	<b>Common:</b> Alcohols, Dilute Acids, Dilute Alkalis, Ketones (MEK, Acetone), Vegetable Oil. <b>Other Acceptable Services:</b> Drinking Water, Sea Water, Sanitary Sewage, Reclaimed Water, Raw Water, Storm Water
Nitrile (NBR) (Acrylonitrile Butadiene)	150°	150°	125°	<b>Common:</b> Hydrocarbons, Fats, Oils, Greases, Chemicals, Oils & Fluids, Refined Petroleum. <b>Other Acceptable Services:</b> Drinking Water, Sanitary Sewage, Reclaimed Water, Raw Water, Storm Water
Neoprene® (CR) (Polychloroprene)	200°	180°	150°	<b>Common:</b> Greasy Waste. <b>Other Acceptable Services:</b> Sea Water, Sanitary Sewage, Reclaimed Water, Raw Water, Storm Water
Viton®; Fluorel® (FKM) <sup>6</sup> (Fluorocarbon)	212°	300°	300°	<b>Common:</b> Aromatic Hydrocarbons and Fuels, Acids, Vegetable Oils, Petroleum Products, Chlorinated Hydrocarbons, Most Chemicals and Solvents. <b>Other Acceptable Services:</b> Drinking Water, Reclaimed Water, Raw Water, Storm Water

<sup>1</sup>Maximum 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.

<sup>2</sup>Maximum 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.

<sup>3</sup>Water, including sewage, with low levels of the listed contaminants.

<sup>4</sup>Lubricating oil in the air will adversely affect SBR and EPDM performance.

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

<sup>6</sup>Consult pipe manufacturer for availability of FKM push-on gaskets.

For more information contact DIPRA or any of its member companies.

### Ductile Iron Pipe Research Association

An association of quality producers dedicated to the highest pipe standards through a program of continuing research and service to water and wastewater professionals.

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Visit our website, [www.dipra.org/videos](http://www.dipra.org/videos), and click on the YouTube icon for informational videos on Ductile Iron Pipe's ease of use, economic benefits, strength and durability, advantages over PVC, and more.



### Member Companies

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Ductile Iron Pipe is  SMART certified