



McWANE
DUCTILE

IRON STRONG

McWaneDuctile.com

SPECIALTY GASKET MATERIAL PROPERTIES TIP SHEET

TYPICAL PROPERTIES of specialty gaskets for Ductile Iron pipe, valves, and fittings are listed below. Contact your local McWane Ductile Representative with questions regarding your waterworks project or specialty application. Check out our Iron Strong blog for more helpful information on gaskets and other products at McWaneDuctile.com/Blog.

ANSI/ASTM Designation	CR	EPDM	FKM	NBR	SBR
Common Name:	Chloroprene (Neoprene)	Ethylene Propylene Diene Monomer	Viton®, Fluorel® (Fluorocarbon)	Acrylonitrile Butadiene (Nitrile)	Styrene Butadiene
Low Temp:	-30° F	-40° F	-10° F	-30° F	-30° F
* High Temp Water & Sewer Push-On & MJ:	200° F	212° F	212° F	150° F	150° F
* High Temp Air Push-On & MJ:	Push-On: 180° F Mechanical: 150° F	Push-On: 200° F Mechanical: 150° F	Push-On: 300° F Mechanical: 300° F	Push-On: 150° F Mechanical: 125° F	Push-On: 150° F Mechanical: 125° F
Abrasion	Very Good - Excellent	Good - Excellent	Good	Good - Excellent	Excellent
Adhesion:	Excellent	Good - Excellent	Fair - Good	Excellent	Excellent
General Properties:	Good weathering resistance, Flame retarding. Moderate resistance to petroleum-based fluids.	Excellent ozone, chemical, and aging resistance. Poor resistance to petroleum-based fluids.	Excellent oil and air resistance both at low and high temperatures. Very good chemical resistance.	Excellent resistance to petroleum-based fluids.	Excellent resistance to water and low water absorption. Excellent elongation.
Resistant to:	Moderate chemicals and acids, ozone, oils, fats, greases, many oils and solvents.	Animal and vegetable oils, ozone, strong and oxidizing chemicals.	All aliphatic, aromatic and halogenated hydrocarbons, acids, animal and vegetable oils.	Many hydrocarbons, fats, oils, greases, hydraulic fluids, chemicals.	Fresh water, wastewater, salt water, storm water, sanitary sewage.
Attacked by:	Strong oxidizing acids, esters, ketones, chlorinated aromatic and nitro hydrocarbons.	Mineral oils and solvents, aromatic hydrocarbons.	Ketones, low molecular weight esters and nitro containing compounds.	Ozone (except PVC blends), ketones, esters, aldehydes, chlorinated and nitro hydrocarbons.	Many solvents, oils and concentrated acids.

* Temperature ranges and resistance capabilities vary from water, sewer, and air applications and individual compound formulations. This document, including maximum service temperatures listed above, is intended to provide general guidelines for these materials. For specific product information, please contact your local McWane Ductile sales representative.

Reference: Ductile Iron Pipe Research Association (DIPRA), Specification Rubber, Inc., and S&B Technical Products.



For Generations

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