



RFStm

Reduced Friction Seal



PRELUBRICATED GASKETS for PIPE and PRECAST PRODUCTS

What It Is

RFS Prelubricated Pipe Gasket is the latest development in pipe joint sealing technology. Using a precision extrusion, the gasket is spliced, tested and filled with an internal lubricant that doesn't solidify or need to be replaced. The **RFS** design allows concrete pipe joints to be assembled quickly and easily.



How It Works

RFS Prelubricated Pipe Gaskets have superior materials and technology.

- Specially developed synthetic rubber is continuously tested and lab-certified for concrete pipe joints conforming to ASTM C-443.
- RFS is easy to apply to the spigot of the pipe and requires no equalization.
- RFS helps center the pipe during assembly and this reduces joint homing forces.
- The mantle of the RFS Gasket fits into the concrete annular space, limiting differential settlement.
- Special viscosity silicone lubricant to reduce joint homing forces.

Why It's Better

- Installs easily and neatly on the pipe spigot
- Reduces dependency on manpower to properly prepare joint for assembly.
- Requires no external lubrication or equalization
- Installs faster and easier, so less time in the ditch
- Requires no external lubricant, so pipe joint stays cleaner during handling and assembly



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How It Performs

RFS Prelubricated Pipe Gaskets meet or exceed all requirements of the following Specifications and/or Test Methods:

ASTM C 1619 (Classes C) - Standard Specification for Elastomeric Seals for Joining Concrete Structures

ASTM C 443 - Standard Specification for Joints for Concrete Pipe and Manholes, Using Rubber Gaskets

CSA A 257.3 - Gaskets for Concrete Pipe

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TYPICAL DIMENSIONAL MEASUREMENTS



Profile Designation	Body Height "A"	Body Width "B"	Total Width "C"	Annular Space	
				Gasket	Pipe
RFS-135	0.650 (16.5 mm)	0.724 (18.4 mm)	1.607 (40.8 mm)	0.326 (8.3 mm)	0.126 (3.2 mm)
RFS-165	0.755 (19.2 mm)	0.825 (21.0 mm)	1.954 (49.6 mm)	0.446 (11.3 mm)	0.146 (3.7 mm)
RFS-175	0.685 (17.4 mm)	0.743 (18.9 mm)	1.288 (32.7 mm)	0.446 (11.3 mm)	0.146 (3.7 mm)
RFS-185	0.798 (20.3 mm)	0.938 (23.8 mm)	2.110 (53.6 mm)	0.446 (11.3 mm)	0.146 (3.7 mm)
RFS-186	0.780 (19.8 mm)	0.959 (24.4 mm)	2.161 (54.9 mm)	0.446 (11.3 mm)	0.094 (2.4 mm)
RFS-200	0.825 (21.0 mm)	0.960 (24.4 mm)	2.130 (54.1 mm)	0.500 (12.7 mm)	0.146 (3.7 mm)
RFS-225	0.960 (24.4 mm)	1.047 (26.6 mm)	2.770 (70.4 mm)	0.525 (13.3 mm)	0.175 (4.4 mm)

NOTE: DIMENSIONS ARE FOR NOMINAL MATERIAL. ACTUAL MEASUREMENTS WILL VARY WITH MANUFACTURING TOLERANCES.

TYPICAL PHYSICAL PROPERTIES

TYPICAL TEST RESULTS for RFS Gaskets - ASTM C 1619 Class E (ASTM C 1619 Class C, ASTM C 443, and CSA A 257.3)			
Test	ASTM Test Method	Test Requirements	Typical Result
TENSILE STRENGTH	D 412	1800 PSI MIN. (1200 PSI MIN.)	2050 PSI
ELONGATION AT BREAK	D 412	425% MIN. (350% MIN.)	650%
SPECIFIED HARDNESS	D 2240 (SHORE A DUROMETER)	±5 FROM THE MANUFACTURER'S SPECIFIED HARDNESS	<2
OVEN-AGE TENSILE REDUCTION	D 573, 70± 1°C FOR 96 HOURS	DECREASE OF 15% MAX. OF ORIGINAL	+2% CHANGE
OVEN-AGE ELONGATION REDUCTION	D 573, 70± 1°C FOR 96 HOURS	DECREASE OF 20% MAX. OF ORIGINAL	-2% CHANGE
COMPRESSION SET	D 395, METHOD B, AT 70°C FOR 22 HRS	DECREASE OF 20% (25%) MAX. OF ORIGINAL DEFLECTION	14%
WATER ABSORPTION	D 471, IMMERSIVE 1-INCH SPECIMEN IN DISTILLED WATER AT 70°C FOR 48 hrs	INCREASE OF 5% (10%) MAX. OF ORIGINAL BY WEIGHT	2.70%
OZONE RESISTANCE	D 1149, 50 PPHM	NO CRACKS	PASS
SPLICE STRENGTH	D 2527, Class 3	CLASS 3: 100% ELONGATION OF SPLICE	PASS

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