

RAMCO[®]

Sealing Solutions

RSS ENFORCER ENGINEERING SPECIFICATIONS

XP PLAIN FACED PHENOLIC FLANGE ISOLATION GASKET KIT

Ramco[®] Sealing Solutions flange isolation gasket kits consists of all components necessary to isolate a flange. The ENFORCER style isolation gasket is manufactured from Nema grade XP Natural Phenolic material incorporating a Nitrile sealing element. The kit comes standard with two isolating Nema grade CE washers, two SAE zinc plated steel backup washers and one Polyethylene sleeve tube for every bolt.

Ramco[®] Sealing Solutions manufactures for all types of applications and services. Products are machined in accordance with International standards such as ANSI, AWWA, MSSSP 44, B.S. 10, DIN, JIS specifications.

FLANGE ISOLATION GASKET KITS MATERIAL REQUIREMENTS:

EEDWP- ENFORCER FULL FACE ISOLATION GASKET KIT shall consist of

“E” Full Face “Enforcer” isolation gasket shall be manufactured from a XP paper grade Phenolic with a Nitrile sealing element.

Nema Grade CE isolating washers- 2 per bolt hole

SAE zinc plated steel backing washer- 2 per bolt hole

Polyethylene isolating sleeve- 1 per bolt hole

FEDWP ENFORCER RAISED FACE ISOLATION GASKET KIT shall consist of

“F” Raised Face “Enforcer” isolation gasket shall be manufactured from a XP paper grade Phenolic with a Nitrile sealing element.

Nema Grade CE isolating washers- 2 per bolt hole

SAE zinc plated steel backing washer- 2 per bolt hole

Polyethylene isolating sleeve- 1 per bolt hole

Ramco[®] Sealing Solutions Gasket kits are proudly manufactured in the USA and are fabricated from the highest quality American made materials possible to exceed industry standards.

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**NEMA: XP NATURAL PHENOLIC
TYPICAL PROPERTIES**

		UNITS	VALUE		
			Thickness Tested		
			0.0625"	0.125"	0.500"
PHYSICAL PROPERTIES					
Specific Gravity (ASTM D792)		-			1.35
Rockwell Hardness (ASTM D785)	0.250" Build-up	M Scale	100		
Moisture Absorption (ASTM D570)	Condition A	%			
	Condition D _{1-24/23}	%	1.50		
Flexural Strength (ASTM D790)	Condition A	psi (Mpa)	29,000 / 22,000 (199.9) / (151.7)		
Flexural Modulus (ASTM D790)	Condition A	kpsi (Gpa)	1,200 / 900 (8.3) / (6.2)		
Tensile Strength (ASTM D638)	Condition A	psi (Mpa)		18,000 / 13,500 (124.1) / (93.1)	
Izod Impact Strength (ASTM D256)	Condition A	ft-lb/in (J/cm)			
	Condition E-48/50	ft-lb/in (J/cm)			0.70 / 0.60 (0.37) / (0.32)
Compressive Strength (ASTM D695)	Condition A	psi (Mpa)			45,000 (310.3)
Bonding Strength (ASTM D229)	Condition A	lb (kg)			1,100 (499.0)
Shear Strength (ASTM D732)	Condition A Perpendicular	psi (Mpa)	12,200 (84.1)		

		UNITS	VALUE		
			Thickness Tested		
			0.0625"	0.125"	0.500"
THERMAL PROPERTIES					
Maximum Operating Temperature ¹		°C			130
Coefficient of Thermal Expansion (IPC-TM 650-2.4.24)	X-axis / Y-axis	" / °C x10 ⁶		13.0 / 17.0	
Flammability Rating (UL Bulletin 94)	Condition A	Class	HB		
ELECTRICAL PROPERTIES					
Breakdown Voltage (ASTM D149)	Condition A	kVolts	50		
	Condition D-48/50	kVolts	4		
Electric Strength (ASTM D149)	Condition A	Volts/mil (kV/cm)	600 (236.2)		
Arc Resistance (ASTM D495)	Condition A	sec		75	
Comparative Tracking Index (ASTM D3638)		Volts		180	