

RAMCO[®]

Sealing Solutions

RAMCORE CS ENGINEERING SPECIFICATIONS

G-10/STAINLESS STEEL CORE FLANGE ISOLATION GASKET KIT

Ramco[®] Sealing Solutions flange isolation gasket kits consists of all components necessary to isolate a flange. The RAMCORE CS style isolation gasket is manufactured from ¼" thick Nema grade G-10 glass epoxy material bonded on both sides of 316 Stainless Steel sheeting, incorporating a Spring Energized Teflon Sealing element to prevent cold flow under extreme pressures. These kits come standard with two isolating Nema grade G-10 washers, two SAE zinc plated steel backup washers and one Nema grade G-10 sleeve tube for every bolt.

Ramco[®] Sealing Solutions manufactured the RAMCORE CS gasket kit for Critical Service Applications, such as offshore platforms under continuous back and forth movement from sea water battering, or internal pressure surges from Natural Gas Extractions at elevated Temperatures!!!! Which makes the RAMCORE CS Gasket perfectly suitable for API 15,000 # and ANSI 2500# flanges in these applications.

FLANGE ISOLATION GASKET KITS MATERIAL REQUIREMENTS:

RCECSTG10DWG10G10- ENFORCER FULL FACE ISOLATION GASKET KIT shall consist of

"E" Full Face "RAMCORE CS" isolation gasket shall be manufactured from G-10/SS CORE glass epoxy with a Teflon Spring Energized Sealing Element
Nema Grade G10 isolating washers- 2 per bolt hole
SAE zinc plated steel backing washer- 2 per bolt hole
Nema Grade G10 isolating sleeve- 1 per bolt hole

RCFCSTG10DWG10G10 ENFORCER RAISED FACE ISOLATION GASKET KIT shall consist of
"F" Raised Face "RAMCORE CS" isolation gasket shall be manufactured from G-10/SS CORE glass epoxy with a Teflon Spring Energized Sealing Element
Nema Grade G10 isolating washers- 2 per bolt hole
SAE zinc plated steel backing washer- 2 per bolt hole
Nema Grade G10 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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Resiten® G10FR4 HC Performance Values

An all purpose flame retardant NEMA FR4 glass epoxy sheet with exceptional electrical and mechanical properties

<u>Properties</u>	<u>Test Condition</u>	<u>ASTM</u>	<u>Values</u>
Thickness			.125 inches
Tensile Strength:	Condition A	Lengthwise D638	48,000 psi
		Crosswise	44,000 psi
Flexural Strength:	Condition A	Lengthwise D790	77,000 psi
		Crosswise	73,000 psi
Compressive Strength:		Flatwise D695	80000
Izod Impact (notched):	Condition A	Lengthwise D256	15.9 ft.lb./in.
		Crosswise	9.7 ft.lb./in.
	D48/50	Lengthwise	15.4 ft.lb./in.
		Crosswise D256	9.1 ft.lb./in.
Water Absorption		D570	.08% of weight
Specific Gravity		D792	1.96
U.L. Subject 94		UL94	VO
Dielectric Strength		D149	488 Vpm
Dielectric Breakdown:	Condition A	D149	80+ kV
	D48/50		45.2 kV
Arc Resistance:	Condition A	D495	126 seconds
	D48/50		117 seconds
Comparative Track Index (CTI)		U.L. 746A	440 Volts
U.L HV Track Rate		U.L. 746A	2.2 mm/Min.
Permittivity, 1MHz:	Condition A	D150	4.79
	D24/23		4.89
Dissipation Factor, 1MHz:	Condition A	D150	0.016
	D24/23		0.016
Permittivity, 1KHz:	Condition A	D150	5.04
	D24/23		5.17
Dissipation Factor, 1KHz:	Condition A	D150	0.005
U.L. Hot Wire Ignition		U.L. 746A	120+ seconds
U.L. High Amp Ignition		U.L. 746A	200 + Exposure
Shear Strength	Condition A	D732-90	21,000 PSI
Coefficient of Thermal Expansion			1 x 10 ⁻⁵ cm/cm/°C
Thermal Conductivity = 7 x 10 ⁻⁴ /calories per sec. /sq.cm /degree C/cm of thickness			
Youngs Modulus			2,500,000 psi
U.L. temperature Index:		Electrical	130° C
		Mechanical	140° C

Coefficient of Friction with semi gloss finish is ≈ .25 to .300

Standard Sheet sizes are 36" x 48", 48" x 48", 48" x 72", & 48" x 96"

All values are average test results from typical production material. No warranty is implied or guaranteed and testing is recommended for each application.