



# ADVANCE

## PRODUCTS & SYSTEMS, LLC

P.O. Box 60399  
Lafayette, Louisiana 70596-0399  
Toll Free: (800) 315-6009  
Phone: (337) 233-6116  
Fax: (337) 232-3860  
Email: sales@apsonline.com  
www.apsonline.com  
ISO 9001 Certified

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### SUBMITTAL

### APS FLANGE ISOLATION GASKET KITS

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Advance Products & Systems, LLC type **ETG10DWG10MY** flange isolation kits contain one "E" (Full Face) Trojan style isolation gasket manufactured from 1/8" thick Nema grade G-10 glass reinforced epoxy retainer with a Nitrile seal, two 1/8" thick isolating washers manufactured from Nema grade G-10, two SAE zinc plated steel) back-up washers and one Mylar sleeve having a 1/32" wall thickness for each bolt.

APS flange isolation kits can be manufactured to fit the flange dimensions of ANSI, AWWA, MSSSP44, B.S. 10, DIN 2633, 2634, etc.

Advance Products & Systems, LLC certifies that the flange isolation kits are of the highest quality and meet or exceed industry standards.

Country of Origin: USA

**Nitrile Sealing Element:**

Min Operating Temperature	-60°F
Max Operating Temperature	240°F

**G10 General Physical Properties\***

Specific Gravity	1.85
Rockwell Hardness +/- 10	98
Moisture Absorption (%) E-1/105 + D-24/23	.10
Flexural Strength (psi) - LW	65,000
Flexural Strength (psi) – CW	52,000
Tensile Strength (psi) -	51,000
Compressive Strength (psi)	66,000
Bond Strength (lbs)	2,300
Shear Strength (psi)	21,500

**Thermal and Electrical Properties**

Maximum Operating Temperature (°C)	150
Coefficient of Thermal (in/in/Cx10 <sup>-5</sup> )	
Expansion x-axis	10.0
Y - axis	13.0
Flammability	94HB
Dielectric Strength (VPM)	800
Permittivity	
Cond D -24/23	4.80
Arc Resistance (sec)	130
Comparative Tracking Index	600

**Sleeves:**

Nema Grade LE (Mylar)

	<u>Unit</u>	<u>Value</u>
Max Continuous Operating Temperature	°F	300
Water Absorption	%	.80
Dielectric Strength	VPM	4000
Wall Thickness	Inch	1/32

**Back-up Washers:**

SAE Zinc-Plated Steel (manufactured to standard SAE thicknesses)



Joseph Wilson  
Vice President



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### SUBMITTAL

#### APS FLANGE ISOLATION GASKET KITS

Advance Products & Systems, LLC, type **ETTFG10DWG10G10** flange isolation kits contain one “E” (Full Face) Trojan style isolation gasket manufactured from 1/8” thick Nema Grade G10 glass reinforced epoxy retainer with a PTFE sealing element, two 1/8” thick G-10 washers, two SAE zinc plated steel back-up washers and one G-10 sleeve having a 1/32” wall thickness for each bolt. This gasket combination of a G10 retainer with Teflon seal is NSF61 certified.

APS flange isolation kits can be manufactured to fit the flange dimensions of ASME B16.47 SERIES A., ASME B16.47 SERIES B., ANSI, AWWA, MSSSP44, B.S. 10, DIN 2633, 2634, etc.

Advance Products & Systems, LLC certifies that the flange isolation kits are of the highest quality and meet or exceed industry standards.

Country of Origin: USA

#### **PTFE Sealing Element:**

Min Operating Temperature	- 425°F
Max Operating Temperature	450°F

#### **G10 General Physical Properties\***

Specific Gravity	1.85
Rockwell Hardness +/- 10	98
Moisture Absorption (%) E-1/105 + D-24/23	.10
Flexural Strength (psi) - LW	65,000
Flexural Strength (psi) – CW	52,000
Modulus of Elasticity in Flexure	
Kpsi – LW	2,900
- CW	2,600
Tensile Strength (psi) -	51,000
Compressive Strength (psi)	66,000
Izod Impact Strength (ft/lbs/in)	
Cond E. –48/50 LW	7.90
Cond E. –48/50 CW	7.30
Bond Strength (lbs)	2,300
Shear Strength (psi)	21,500

**Thermal and Electrical Properties**

Maximum Operating Temperature (°C)	150
Coefficient of Thermal Expansion (in/in/Cx10 <sup>-5</sup> )	
x-axis	10.0
Y - axis	13.0
Flammability	94HB
Dielectric Strength (VPM)	800
Permittivity	
Cond D -24/23	4.80
Arc Resistance (sec)	130
Comparative Tracking Index	600

**Back-up Washers:**

SAE Zinc-Plated Steel (manufactured to standard SAE thicknesses)



Joseph Wilson  
Vice President