







# Integra® Series Gaskets

## Severe Service Cathodic Isolating Gaskets



**ADVANCE**  
PRODUCTS & SYSTEMS, LLC

### GASKETS ONLY

	INTEGRA II SSA®	INTEGRA II SSAFS®	INTEGRA II SSAID®	INTEGRA XT®	INTEGRA HS®	INTEGRA Z®
						
<b>Applications</b>	<ul style="list-style-type: none"> <li>- Severe service applications up to &amp; including ANSI 2500# and API 10,000# classes.</li> <li>-Designed for severe isolating service in harsh environmental applications, especially where hydrocarbons are a factor.</li> <li>-Various sleeve &amp; washer options available.</li> </ul>	<ul style="list-style-type: none"> <li>-Critical fire safe applications</li> <li>-Incorporates high-temp sealing characteristics of Kamm profile with a highly dielectric mineral secondary seal.</li> <li>-Highly suitable for all severe service applications up to &amp; including ANSI 2500# and API 10,000# classes.</li> <li>-Zero-free leaks for high sulfur content crude oil or H<sub>2</sub>S gas fugitive emissions, proven through multiple applications.</li> <li>-API 6FB approved</li> <li>-Available with hardened-coated steel washers &amp; various sleeve options.</li> </ul>	<ul style="list-style-type: none"> <li>-Suitable for applications with high chloride content or other highly corrosive media.</li> <li>-Zero-free leaks for high sulfur content crude oil or H<sub>2</sub>S gas fugitive emissions, proven through multiple applications.</li> <li>-Provides reliable PTFE seal at flange bore, providing excellent chemical resistance which enables the gasket retainer material to be impervious to the most aggressive media within the pipe.</li> <li>-Various sleeves &amp; washer options available.</li> </ul>	<ul style="list-style-type: none"> <li>-Critical extreme temperature applications.</li> <li>-Suitable for steam applications.</li> <li>-Combines the reliability of a Kamm profile retainer with the temperature capabilities of a highly dielectric mineral seal.</li> <li>-Kits are available with extreme temperature sleeves &amp; washers.</li> </ul>	<ul style="list-style-type: none"> <li>-Suitable for aggressive chemicals (e.g.: hydrogen sulfide, dry and liquid chlorine).</li> <li>-Incorporates the reliability of a stainless steel Kamm profile ring with a non-asbestos compressed outer retainer ring and hydrogen sulfide-resistant PTFE-based seals on both sides of the gasket.</li> <li>-Effective at sealing across a wide range of chemicals, hydrocarbons, and gaseous mixtures.</li> <li>-Various sleeve &amp; washer options available.</li> </ul>	<ul style="list-style-type: none"> <li>-Cryogenic gasket</li> <li>-EC-5000 retainer material developed for and used by NASA for absolute zero operating temperatures.</li> <li>-Various sleeve &amp; washer options available.</li> </ul>
<b>Max Operating Temp</b>	G10: 302°F(150°C) G11: 400°F(205°C)	G10: 302°F(150°C) G11: 400°F(205°C)	G10: 302°F(150°C) G11: 400°F(205°C)	800°F(427°C)	Variable Depending on Washers/ Sleeves	Absolute zero operating temperature -273°C / -459°F
<b>Compressive Strength</b>	G10: 66,000 PSI G11: 58,000 PSI	G10: 66,000 PSI G11: 58,000 PSI	G10: 66,000 PSI G11: 58,000 PSI	316 SS: 85,000 PSI	316 SS: 85,000 PSI	65,000 PSI
<b>Dielectric Strength</b>	G10: 800 VPM G11: 550 VPM	G10: 800 VPM G11: 550 VPM	G10: 800 VPM G11: 550 VPM	635 V/mil (25 kV/mm)	406 V/mil (16 kV/mm)	670 VPM
<b>Water Absorption</b>	G10: 0.04% G11: 0.08%	G10: 0.04% G11: 0.08%	G10: 0.04% G11: 0.08%	Mica: 0.99%	Durlon 9000: .086%	0.10%
<b>Flexural Strength</b>	G10: 65,000 PSI G11: 58,000 PSI	G10: 65,000 PSI G11: 58,000 PSI	G10: 65,000 PSI G11: 58,000 PSI	316 SS: 30,000 PSI	316 SS: 30,000 PSI	75,000/65,000 PSI
<b>Tensile Strength</b>	G10: 51,000 PSI G11: 41,000 PSI	G10: 51,000 PSI G11: 41,000 PSI	G10: 51,000 PSI G11: 41,000 PSI	Mica: 20,300 PSI 316 SS: 44,000 PSI	316 SS: 44,000 PSI	45,000/38,000 PSI
<b>Bond Strength</b>	G10: 2,600 lb. G11: 2,200 lb.	G10: 2,600 lb. G11: 2,200 lb.	G10: 2,600 lb. G11: 2,200 lb.	N/A	N/A	2,300 lb.
<b>Shear Strength</b>	G10: 22,000 lb. G11: 21,200 lb.	G10: 22,000 lb. G11: 21,200 lb.	G10: 22,000 lb. G11: 21,200 lb.	316 SS: 71,800 PSI	316 SS: 71,800 PSI	22,000 lb.

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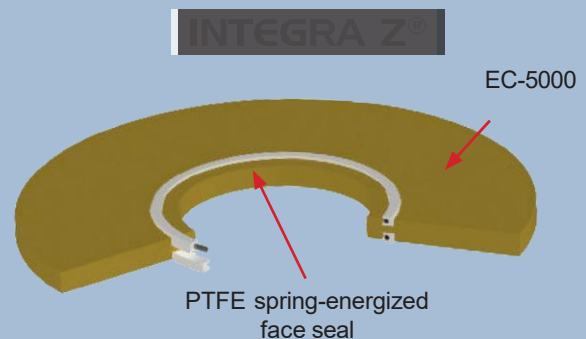
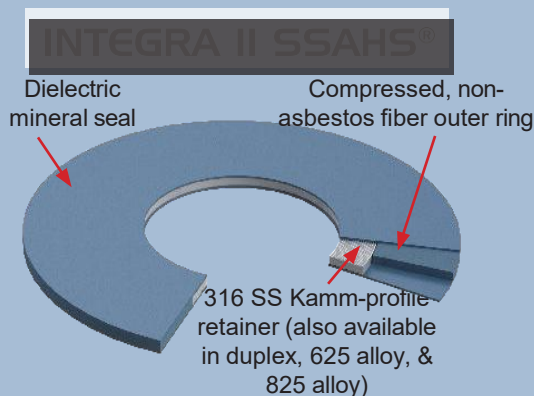
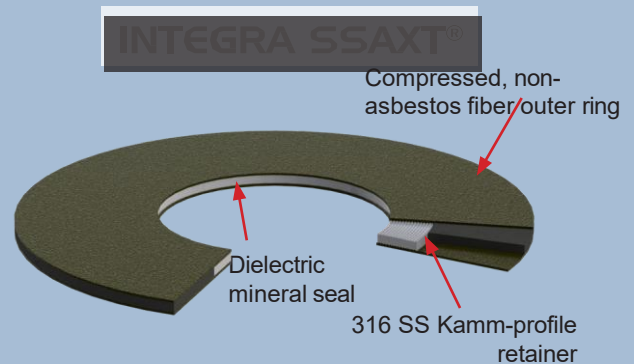
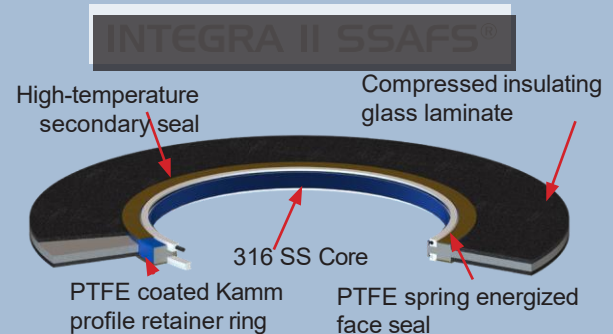
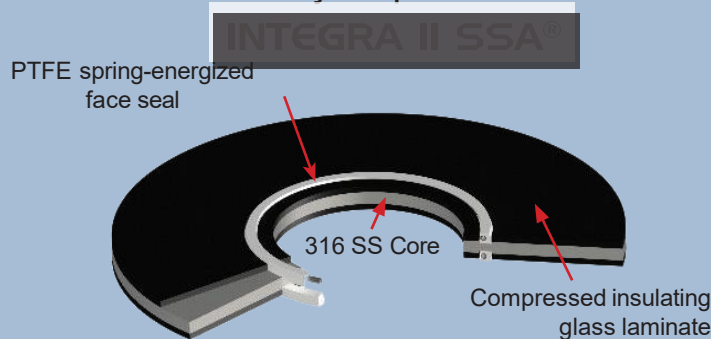


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## Severe Service Cathodic Isolating Gaskets

The Integra Series gaskets are exceptionally dependable for isolating and sealing purposes in severe service applications. These gaskets are applicable for:

- Isolating between flanges of dissimilar metals to prevent galvanic corrosion.
- Wellhead isolation from inter-connected flow lines.
- Mating mismatched dissimilar flanges.
- Eliminate turbulence and flow-induced erosion between ring-joint (RTJ) flanges.
- Protect against corrosion on uncoated or scarred flange faces.
- Seal between flanges subjected to vibration/cavitations.
- Eliminate corrosion from forming in the cavities between RTJ flanges where intense modes of hostile chemicals may be present.



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