



CERTIFICATE OF ACCEPTANCE

This is to certify that a gasket design approval has been awarded to:

Company: GPT Industries *
Manufacturing Location: 4990 Iris Street, Wheat Ridge, CO 80033, USA
Brand: EVOLUTION®
Technical Qualification Result: Successful Type Acceptance Test

* The certificate of acceptance has been awarded to GPT Industries for their EVOLUTION insulation gasket as part of the gasket portfolio/supply chain from ERIKS.

Based on the Shell Global Solutions Technical Qualification, the performed Type Acceptance Testing (TAT) in accordance with testing procedure SPE 85/300 (dated February 2019) has been accepted in November 2022 by Shell Global solutions International B.V. based on successful TAT result of:

Gasket Type	Pressure Class	Size	Allow. Operating Temp Range	Emission class
Electrical insulation	150# - 2500#	½" – 36"	-184 °C up to 30 °C	AH
	API 6A 2K - 5K		30 °C up to 260 °C	BH

Gasket material	A 316L Stainless Steel retainer ring (fully encapsulating with a GPT Proprietary Coating) holding two sealing elements made from an Inconel 718 C-ring (provided with a high dielectric strength thin-film coating) and a Silica filled PTFE ID seal. See page 2 for the gasket summary sheet
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Shell GSI Report No: N.A. (Not Applicable)	Original acceptance: November 2022
Shell GSI contract no: N.A.	Current Certificate: November 2022
Certificate Revision: 0	Certificate Expiry: November 2027
Issued By: Shell Global Solutions International B.V. GSNL-PTP – Bas van der Heijden Bas.vanderHeijden@shell.com	Suppliers Report No.: A300 214 1b, February 17 - 2020, AMTEC. Suppliers Contact: Max.Bartlett@gptindustries.com

Signature & Date:

 November 10th
2022

Product Data

- **Carrier:** 316L Stainless Steel with Fully Encapsulating GPT Proprietary Coating
- **Primary Sealing Element:** Silica Filled PTFE ID-Seal
- **Secondary Fire-Safe Sealing Element:** NACE MR0175/ISO 15156 Inconel 718 C-ring with GPT Proprietary Coating
- **Color:** Dark Brown Retainer with Fluorescent Green Coating Markers on Outer Retainer Ring
- **Fluid Service:** Oil and Gas, Chemical Services and Processing*, Renewable Energy (CCS, Hydrogen)
- **Maximum Operating Temperature (°F/°C):** 500°F/260°C**
- **Minimum Operating Temperature: (minus):** -300°F/- 184°C
- **Size:** 1/2 - 36 inch NPS***
- **Pressure Class:** ASME B16.5 150# - 2500#, API 6A 2K-5K****

* Note: Evolution is suitable for a wide range of chemical services. Please consult GPT for further information on suitability.

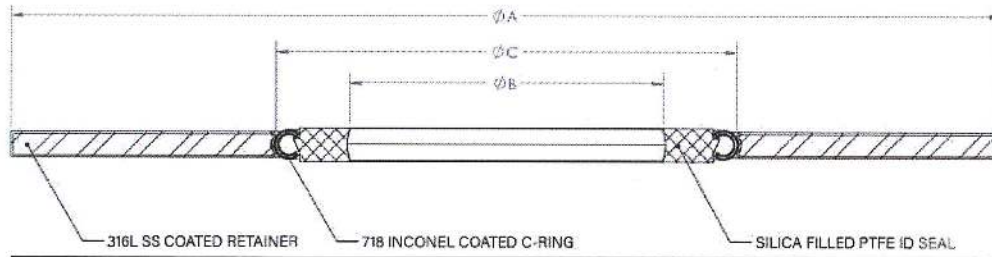
**Note: Temperature rating when using Mica sleeves/washers

*** Note: API, DN, and larger sizes available soon or upon request

**** Note: ASME B16.47, API 6A, EN 1092, and DIN 2501 flange specification and pressure classes available soon or upon request

Product Description

Flange isolation gasket composed of a fully encapsulating high dielectric strength thin-film coated stainless steel grade 316L gasket retainer, NACE MR0175/ISO 15156 Inconel 718 C-ring with high dielectric strength thin-film coating, and Silica Filled PTFE ID-Seal where applicable. Standard compressed gasket thickness (T) is 0.125" (~3.2mm).



Production Location

GPT Industries
 4990 Iris Street
 Wheat Ridge, CO 80033
 USA
 Phone Number: +1-303-988-1242

Type of Test Per MESC SPE 85/300 Feb. 2019		Testing Facility	Witness	Completion Date	Test Value (if applicable)	Acceptance Criteria Met
Fugitive Emissions - Ambient	3.3.2	AMTEC North America, Inc.	Adam Arnett	11.07.2019	6.48E-12 Pa•m³/s•mm	Tightness Class AH
Fugitive Emissions - 260C	3.3.2	AMTEC North America, Inc.	Adam Arnett	02.17.2020	2.79E-08 Pa•m³/s•mm	Tightness Class BH
Fire Test	3.3.3	Yarmouth Research & Technology LLC	Matt Wasielewski	12.10.2019 12.11.2019	0.2-0.4 ml/min	Passed
EN 13555 Testing	3.3.4	AMTEC North America, Inc.	Adam Arnett	11.07.2019	See Appendix 3-4	Informative
High Temperature Operational Tightness Test (HOTT)	3.3.5	AMTEC North America, Inc.	Adam Arnett	11.07.2019	No Pressure Drop Measured	Passed
Hot Blowout Test (HOBT-1)	3.3.6	AMTEC North America, Inc.	Adam Arnett	11.07.2019	No Blow-Out	Passed
Gasket Adhesion	3.3.8	AMTEC North America, Inc.	Adam Arnett	11.07.2019	No Adhesion	Passed
Electrical Isolation	3.3.10	AMTEC North America, Inc.	Adam Arnett	12.13.2019	All Readings Greater Than 100MΩ	Passed