

The Ultimate Gasket for new or corroded flange faces in HF service

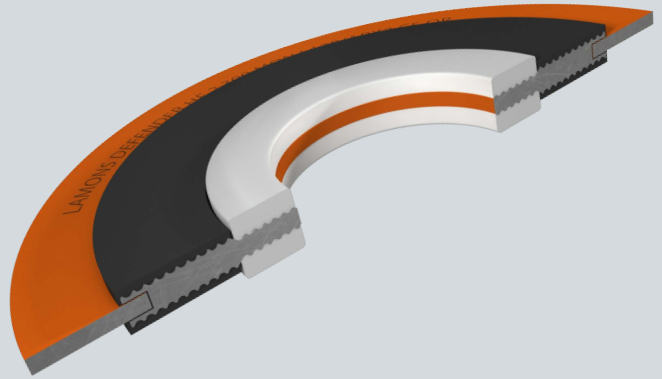
Over prolonged periods in HF acid service, flange faces can become pitted and damaged due to corrosion around the flange bore. The Lamons Defender® HF gasket is designed to seal on new or corroded and damaged flange faces where traditional gaskets are not a reliable solution.

Product Description

The Defender® HF gasket has an integral and unique Kammpro® metallic core that is designed to offer high integrity primary and secondary sealing components across a corroded flange face.

The materials of construction are generally dictated by the customer's own piping classifications and the process design specifications.

- Integral stepped Kammpro® core and outer locating ring.
- High purity APX2 flexible graphite and L-120 ePTFE covering layers.
- Monel™ or low carbon steel core materials.



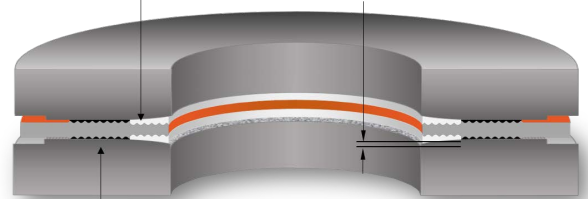
Features & Benefits

Designed for use in the HF acid industry, and other highly corrosive applications where aggressive operating environments are part of every day life.

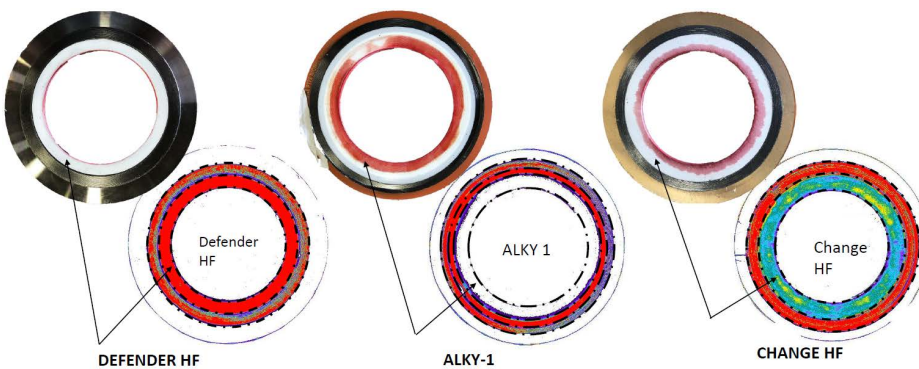
The Defender® family of products offers the operators a high integrity combination of safety and performance.

- For use on ASME B16.5 flanges
- Requires no additional bolt torque than a standard piping gasket
- Kammpro® inner ring has ePTFE facings which act as a primary seal to prevent media ingress and crevice corrosion. This rigid Kammpro® inner ring adds stability under installation and compression of the ePTFE. The machined serrations create "point contact" loading for high integrity sealing.

Inner primary ePTFE seal accommodates the worst corroded area
Accommodates up to 1/8" of corrosion depth across width of sealing area



Outer secondary APX2 graphite seal secures the high integrity closure



Defender-HF	Design Parameters		
ASME design factors	m = 2.75 Y = 3700psi	m = 2.75 Y = 25.5MPa	
Standard Dimensions	Suitable for ASME B16.5 flanges 1/2" through 24" *sized to pipe bore upon request*		
Pressure Class	Suitable for ASME B16.5 flange class 150# through 2500#		
Temperature Range	-321F to 500F	-196C to 260C	
Core Materials	Monel™ 400 UNS N04400		
ROTT Testing PVRC Constant Values	Gb	Gs	a
	654	2.69-E-13	0.235

Where the Gasket Seal Matters!

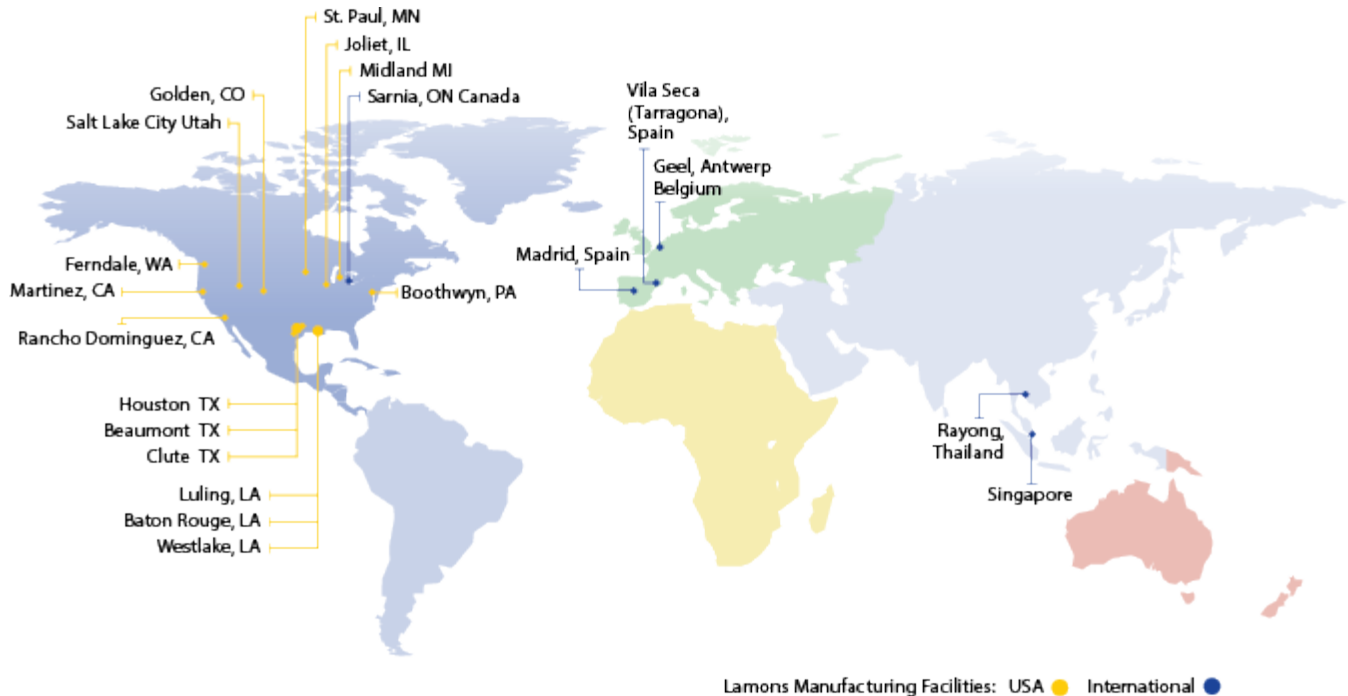
The Defender® HF simply outperforms the rest for effecting a seal at low seating stresses and maintaining that seal even with extreme relaxation of the bolted joint. In this controlled dye-penetration test, the Defender® HF showed virtually zero dye-penetration in the gasket sealing area. If flange protection is your goal, the Defender® HF will protect your flanges better using typical bolt loads than any other gasket in the market!

The above illustrates the correlation between the dye-penetration test and pressure indicating paper. The test was administered @ 60% bolt load @ 260psi for 2.5 hours to replicate the effects HF acid can have without the proper gasket installed. This test shows where loads are applied across the sealing surface. Detailed results are available upon request to Lamons Engineering.



Sealing Global - Servicing Local

Global Locations



Lamons is the market leader in the manufacture and supply of high-quality gasketing components, fasteners and specialty machined products. Lamons is committed to superior sealing products distributed worldwide in conjunction with personal, localized service. Lamons' locations feature leading technology and state of the art manufacturing facilities capable of producing engineered sealing products to precise custom specifications. Lamons stocks and provides the widest selection of gasketing and bolt materials. Lamons' sealing solutions are utilized in every major industrial market in the world and we are depended upon daily to quickly respond to any customer specification or demand. This characteristic is unmatched by any other manufacturer in the gasket and fastener industry.

Lamons Services

Engineering Assistance

- Custom Gasket Designs
- Application Recommendations
- Drawings Online
- Load Calculations

Training

- On Site Training
- Seminars
- Presentations
- Installation Guides
- Email engineering@lamons.com to schedule

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