



# ECHELON

ECHELON-HF™ GASKET



Sealing for a safer and greener tomorrow

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Sealing for a safer and greener tomorrow



## TEADIT®'S ECHELON™-HF GASKET:

The TEADIT® Echelon™-HF Gasket is engineered for Hydrofluoric (HF) Acid service, where crevice corrosion and chemical attack are critical concerns. Based on the proven ASME B16.20 spiral wound design, this unique solution features a precision-machined Monel® serrated inner ring, which provides enhanced sealing performance and corrosion resistance in aggressive HF environments.

Unlike standard inner rings, the Monel® kammprofile creates a compressible primary seal closer to the pipe bore, minimizing crevice formation and reducing leak paths. Critical care was given to the design of the layers of chemically resistant ePTFE facing material to add further protection, ensuring long-term reliability even in demanding process conditions.

## ECHELON

[ esh-uh-lon ]

A step-like formation of troops, ships, aircraft, or vehicles in parallel rows with the end of each row projecting further than the one in front providing multiple lines of defense.

**"MULTIPLE  
LINES OF  
DEFENSE"**



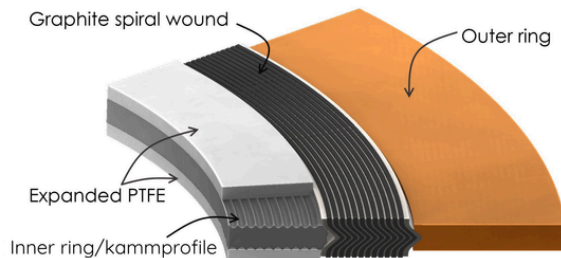
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## APPLICATION:

The Echelon-HF™ gasket is specifically engineered for use in HF Alkylation service, where carbon steel flanges are highly susceptible to severe crevice corrosion. Our standard, field-proven configuration features an oxidation-inhibited graphite filler in the spiral wound portion, combined with an ePTFE facing. This design, which has an integrated Collar and Inner Ring, delivers enhanced protection against corrosion in one of the most hazardous chemical processing environments.



## FEATURES:

- Kammprofiled Monel Inner Ring
- Compressible ePTFE Faced Inner Ring
- Low Stress Design Windings
- Oxidation-Inhibited Graphite Filler
- Manufactured in Pasadena, TX

## MATERIAL PROPERTIES

Component	Material
Facing Material	ePTFE
Filler Material	Oxidation-Inhibited Graphite
Winding Wire	Monel 400
Inner Ring	Monel 400
Outer Ring	Carbon Steel



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