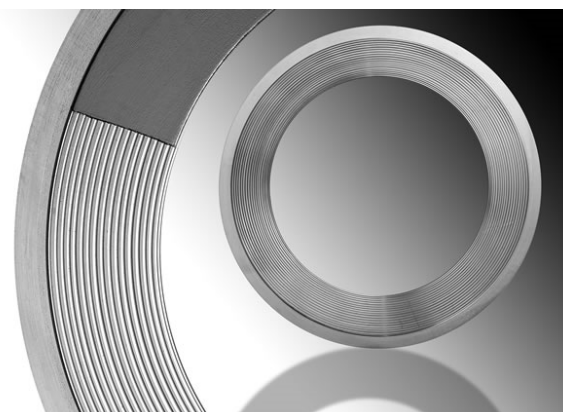


CASE STUDY: Euroseal® Camprofile Thermoseal Camprofile gasket for critical service



INDUSTRY

Fertilizers
Ammonia plant

CUSTOMER

Leading Company in Italy

BACKGROUND

This setup includes an intermediate basket, creating two distinct sealing zones: one upper and one lower, positioned between the flange and the basket. Overall dimensions: 1,700 mm, with a sealing band width of 30 mm. Despite the good flatness of the flanges, sealing anomalies were observed, indicating critical issues likely related to factors beyond surface geometry alone.

DIFFICUTIES FACED

The spiral wound gasket in AISI 304 with ceramic filler and internal retaining ring, selected during the design phase, showed critical issues during storage, handling, and installation—mainly due to the considerable size of the component. Despite the application of controlled bolt tightening, sealing anomalies were detected, indicating the need to review the technical solution.

OPERATING DATA

- Media: Ammonia, Nitric Acid
- Min Temperature: 200° C
- Max Temperature: 680° C
- Pressure: 2 Bar

SOLUTION & BENEFIT

The Euroseal Camprofile gasket in AISI 304, equipped with a 1 mm Thermoseal® coating on each side, successfully passed the hydrostatic test, ensuring leak-tightness of the reactor even under operating conditions. Compared to the Spiral Wound Gasket, the greater mechanical strength of the Camprofile significantly simplified storage, handling, and installation operations, confirming the reliability of the solution even in highly demanding environments.