

## Case Study: THERMa-PUR® 4122 Kammprofile - Oil & Gas



### INDUSTRY

Oil & Gas

### BACKGROUND

An international energy company had a propane dehydrogenation facility that had historically used a vermiculite-based gasket for its high temperature sealing applications.

### CHALLENGES FACED

The facility had installed large Kammprofile gaskets with vermiculite facing. When those gaskets were removed, the customer found significant vermiculite residues adhering firmly to the flanges and it was a lengthy process to clean them. This caused increased downtime and scratches to the sealing face of the flanges that could compromise their sealing integrity.

### OPERATING CONDITIONS

Size: 174" (4425mm)

Temperature: 630-650°C (1166-1202°F)

Application: Flange

Media: Propane

Pressure: 2 bar (35 psi)

### SOLUTION AND BENEFITS

In 2018, the facility switched from gaskets with vermiculite facing to Garlock THERMa-PUR® Kammprofile gaskets. The gaskets were installed in February of 2018 and removed in March 2019 during scheduled maintenance. The customer stated that they were, "Impressed with the sealing capability of the Garlock THERMa-PUR® gasket at extreme temperatures and the minimal cleaning required during gasket removal".

Thanks to its unique formulation, THERMa-PUR® is well-suited for the facility's high temperature sealing applications, and leaves no residual material sticking to flanges, thus avoiding heavy cleaning, additional downtime, and flange damage.

For more information, please visit:

<http://www.garlock.com>

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