

# Case Study – novamica<sup>®</sup> THERMEX

Sealing and heat insulation  
in a biomass reactor



# Biomass reactor

## Case Study – novamica® THERMEX

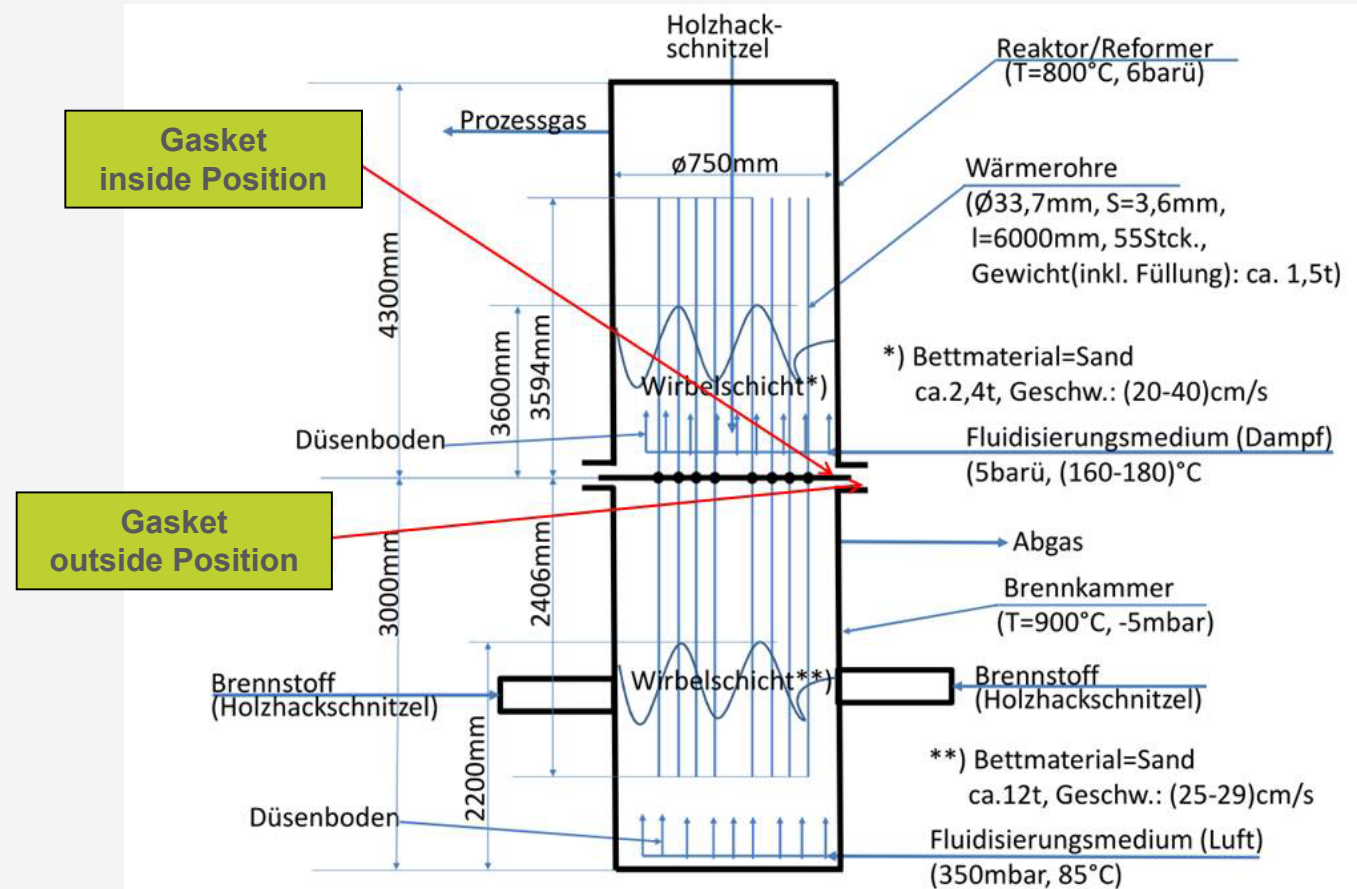
### Application

Sealing and heat insulation in a reactor (combustion of solid biomass) for generation of heat and electricity.

- Temperature: 900 °C
- Pressure: 6 bar
- Medium: synthesis gases

### Problem

Due to the high temperatures – up to 900°C – most of the standard gasket materials cannot be used.



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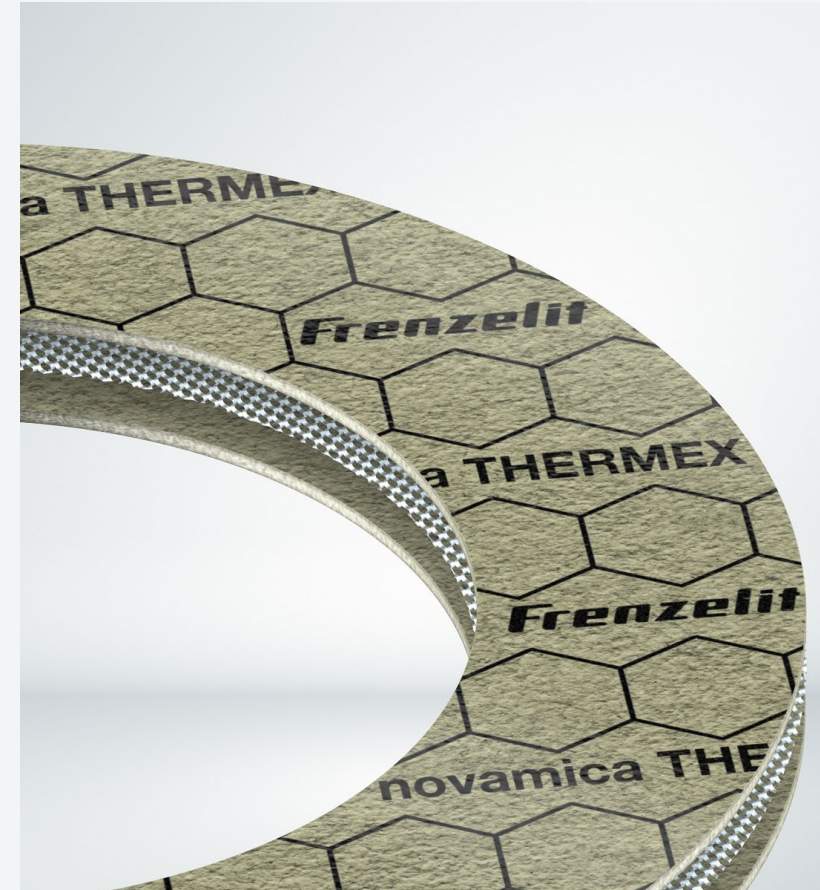


### Solution

novamica® THERMEX with inner and outer eyelet is used as high temperature heat insulation material in front of a graphite gasket. This reduces the temperature on the graphite seal to a feasible level.

### Result

The combination of novamica® THERMEX and novaphit® SSTC<sup>TA-L</sup> is perfectly suitable for the application.








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