

TEADIT® GR1700 CASE HISTORY

INDUSTRIAL SEGMENT

Petrochemical

APPLICATION

Phosphate Fertilizer

SCENARIO

A phosphorus miner and phosphate fertilizer producer had a gasket, carbon fiber with NBR binder, that was not suitable for the application, SO₂, it was being used in and ended up failing in less than a year. The gasket failing caused toxic gases to escape, leading to environmental contamination that the customer had to address through additional plant safety measures resulting in high maintenance costs.



SOLUTION

Teadit was brought in to assist the customer in their analysis of the application. Teadit was able to recommend our GR1700 as a solution due to the material's suitability for contact with SO₂, as well as being able to withstand high temperatures.



CUSTOMER GAINS

Teadit's GR1700 gasket material solution saved the customer over \$12,000 in material cost and 548 tons of sulfuric acid material loss. There were no more leaks, meaning no more environmental penalties for escaped SO₂ gas. This resulted in the customer gaining more savings by no longer needing the additional plant safety measures that were initially put in place.