

Sealing Materials: Gaskets A HIDDEN OPPORTUNITY IN NITROGEN FERTILIZER APPLICATIONS

For over 823 nitrogen fertilizer plants globally, the smallest equipment could make a surprising difference. Often overlooked, sealing materials – specifically gaskets – can have a huge impact on plant operations, from reducing shutdowns to increasing safety and productivity.



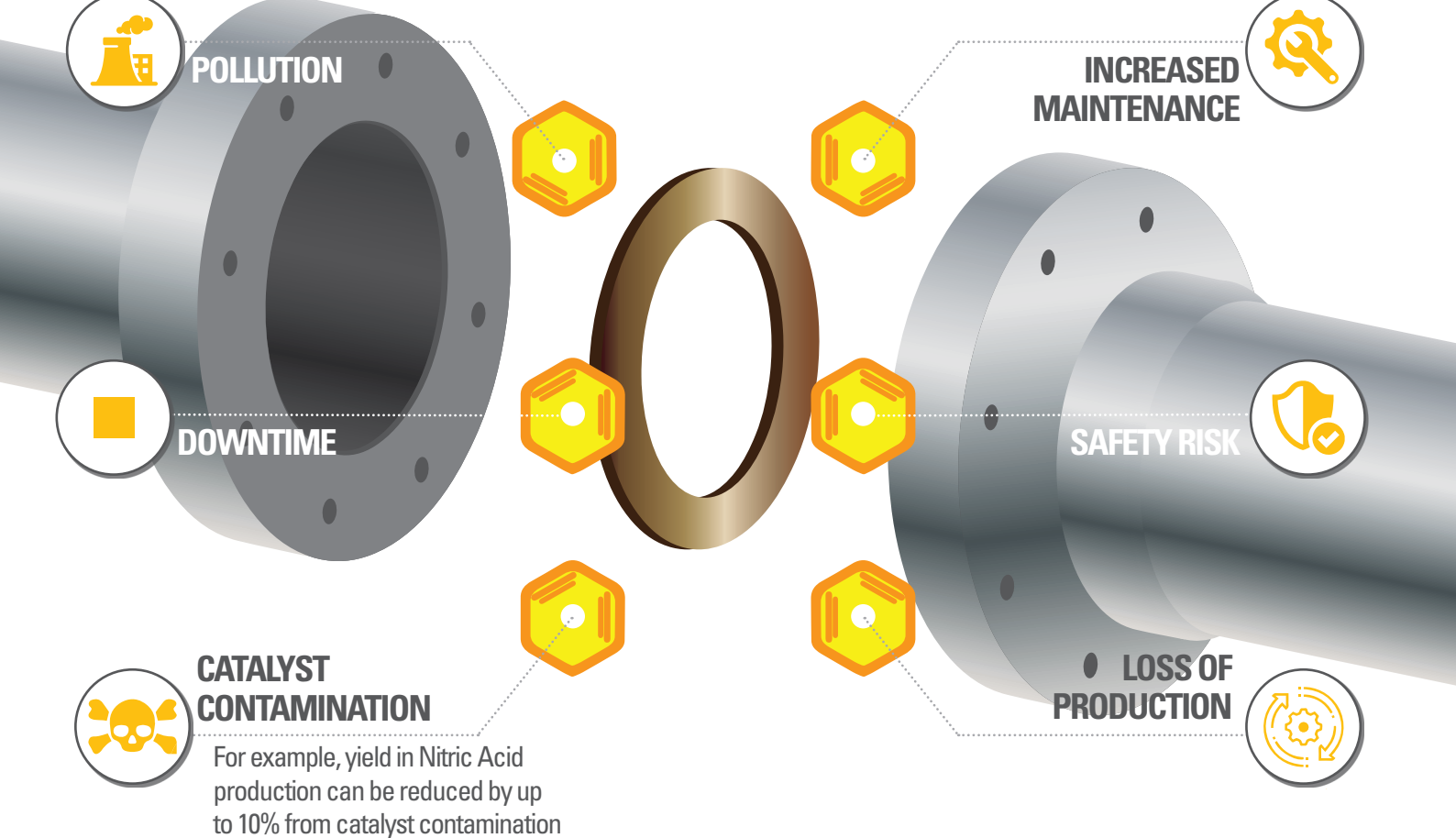
Safety

Reliability

Efficiency

Savings

Choosing the wrong sealing material and gaskets can cause leaks and lead to:

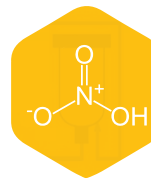


CATALYST CONTAMINATION
For example, yield in Nitric Acid production can be reduced by up to 10% from catalyst contamination

Challenging environments are present in the production of fertilizers and intermediates like ammonia and nitric acid:



Let the length of your gauze campaign determine the frequency of your shutdowns **not the inefficiency of your burner gaskets**



NITRIC ACID PRODUCTION

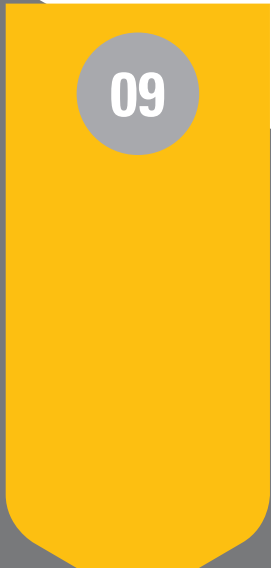
The impact of extending the time between shutdowns is significant:

Shutdowns eliminated over three years

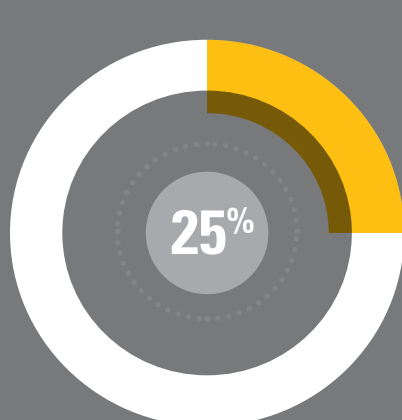
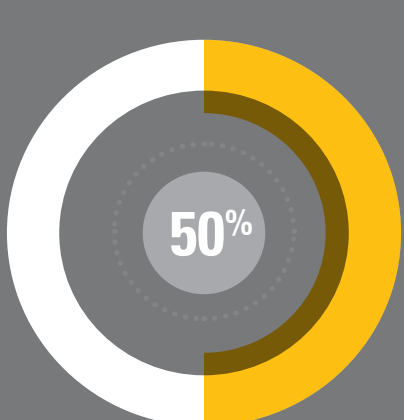
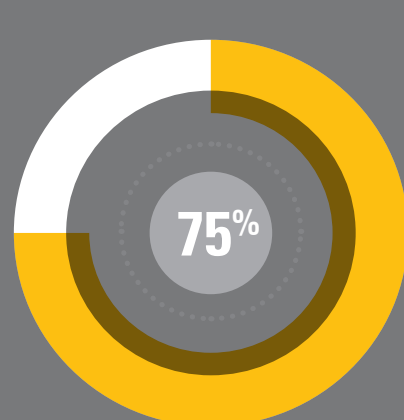
Increasing gauze campaign from: 3mths → 12mths

Increasing gauze campaign from: 6mths → 12mths

Increasing gauze campaign from: 9mths → 12mths

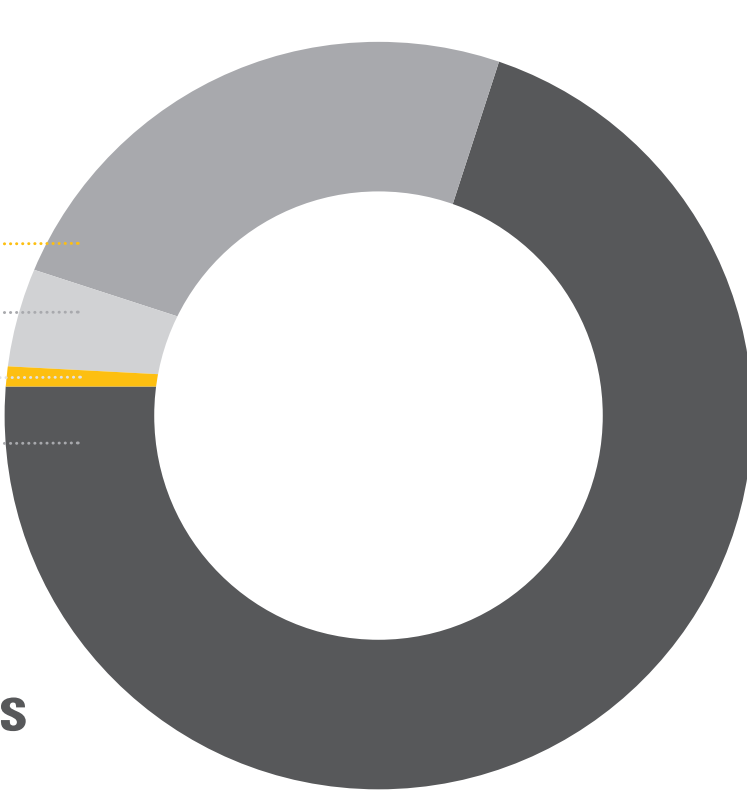


Total cost saving over three years



Plant shutdowns are expensive and include a range of costly factors. While the total amount varies by plant, gasket replacement is always only a tiny fraction of the overall cost.

25% lost production
4% direct maintenance
1% gaskets
70% gauze



Maximising gauze campaigns without interruption is key to creating cost savings.

Find out more about the hidden opportunity of gaskets and how to select the best sealing material to support the safety and efficiency of your plant.

