

Loctite® 5920™ Copper High Temperature Silicone Provides Reliable Seal for Inspection Cover *Enables Paper Mill to Maintain Production Rates*

Situation:

A large pulp and paper mill in British Columbia, Canada was looking for a solution to a gasketing problem with the inspection cover in the steam plant. This component is used as part of the drying process and can see temperatures from 32°F to 500°F. The seals on the inspection cover were breaking down due to the high heat. The mill had been using regular vinegar-smelling silicones to try to seal the inspection cover from leaking, but the high temperatures were too much for this type of silicone. When the seals broke down, the blower/dryer unit became inefficient. Heat leaked through the door causing an increase in drying time and power usage, and a decrease in overall production.

They needed a higher-temperature silicone that could also withstand the dusty environment and fill gaps to 0.125".

Solution:

Loctite® 5920™ Copper is a high temperature silicone gasket that is formulated to withstand operating temperatures to 700°F (371°C) intermittent. It provides superior oil resistance with low odor, and fills gaps to .25". Loctite 5920 Copper is non-corrosive, has low volatility, and is resistant to most chemicals and solvents.

For assemblies that need frequent maintenance, Loctite 5920 Copper can be applied to one part and cured, then assembled. This provides a strong hold, yet allows for easy future access. For assemblies that require little or no maintenance, the parts are assembled while Loctite 5920 Copper is still wet.

Results:

For the pulp and paper mill, Loctite 5920 Copper has provided a reliable gasketing method for their inspection cover. The seals do not break down due to heat and stay together until maintenance personnel take it apart. The dryer unit now operates more consistently, enabling the paper mill to maintain their usual production rate.

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