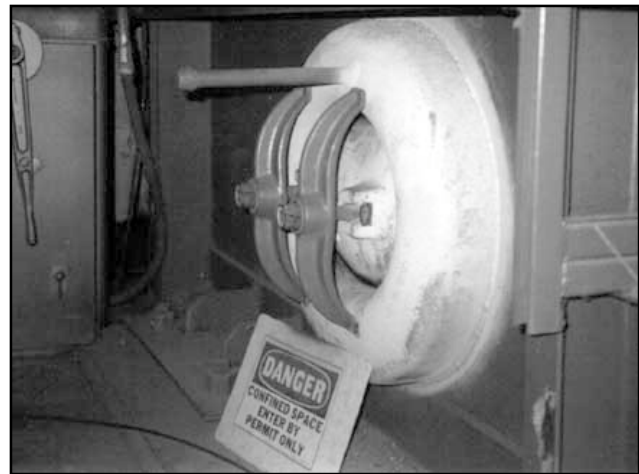


**LOCTITE***Adhesives for more  
reliable assemblies***APPLICATION CASE HISTORY****No. 213**

# Gasket Eliminator® Seals Boiler Chamber Covers; Ends Unscheduled Outages

*Loctite Manufacturing Reliability Gives Maintenance Team The Know-How***Problem:**

An upper Midwestern paper mill had been having trouble obtaining secure seals on the covers of their boilers' mud chambers and water chambers. As boiler capacity was limited, it was imperative to achieve an immediate seal on these covers to keep the plant in full operation. Too many times upon start-up one of the four covers on a boiler would leak. When this happened, shutdown was necessary to change the gasket, drain the boiler and restart. Every time a leak in a cover occurred, **two or more hours** of unscheduled paper machine outages ran into downtime costs of tens of thousands of dollars.



*Cover of boiler chamber sealed with  
Loctite Gasket Eliminator 510.*

**Solution:**

The utilities manager decided to try a procedure he had recently learned during a session of the Loctite Manufacturing Reliability Training Process being conducted at his plant. He instructed his boiler operators to properly clean the flange surfaces with Loctite® 7070 ODC-Free Cleaner, then dress the gasket with Loctite® Gasket Eliminator® 510.

Gasket Eliminator 510 is a high temperature sealant specially engineered for making or dressing gaskets in rigid assemblies. It has a temperature range of -65°F to +400°F and a gap-filling capability of up to 0.020".

**Results:**

Since using Gasket Eliminator 510, the boiler covers have been holding their seals under constant operation at temperatures of 390°F at 250 psi.

The utilities manager not only credits Gasket Eliminator 510, but also the Loctite Manufacturing Reliability Process for giving him the knowledge and the tools he needed to eliminate the downtime associated with the boiler cover seal problem.

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