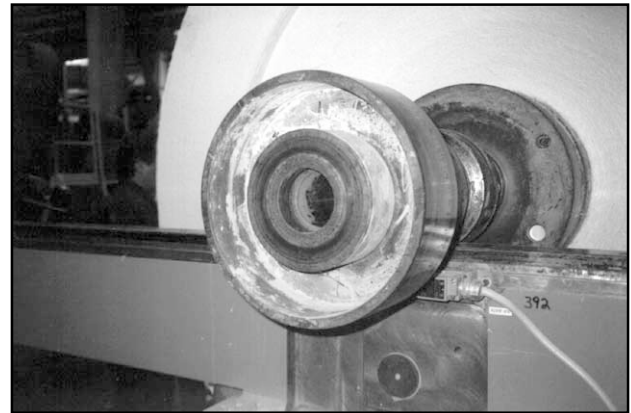


**LOCTITE***Adhesives for more  
reliable assemblies***APPLICATION CASE HISTORY****No. 209****LOCTITE® 262 RETAINS VACUUM ADAPTOR  
FLANGE; SAVES \$35,000/HR IN DOWNTIME***Manufacturing Reliability Training Gives Maintenance Team The Know-How***Problem:**

A large tissue manufacturer in the Midwest uses special vacuum reel spools on their 200" trim twin wire Yankee paper machine. When one roll is almost complete, a new spool is swung into place on the backtender. A vacuum is created inside the new spool by inserting a hose into the vacuum flange. Once the sheet from the full roll is broken, this vacuum draws the tissue onto the new spool, which is already up to a full operating speed of one mile a minute.

The manufacturer had been experiencing frequent failures of the vacuum adaptor flange which is inserted with a slight interference fit into an outboard bearing on the reel spool. Air leakage from the flange prevented a vacuum from being obtained on the new spool, causing several hundred feet of wasted tissue, production downtime and needless labor costs.

**Solution:**

A maintenance mechanic who had been attending the Loctite Manufacturing Reliability Training Process being held at the plant, decided to try Loctite® 262 Threadlocker to retain the vacuum adaptor flange. Loctite 262 is a high strength threadlocker designed for extreme conditions, when fasteners are subjected to heavy shock, vibration and stress levels. The maintenance mechanic learned in one of the training sessions that Loctite 262 can also be used as a light retaining compound.

Maintenance personnel cleaned the flange and the bearing I.D. with Loctite 7070 ODC-Free Cleaner, primed both with Loctite Loquic® Primer N and coated both with Loctite 262 Threadlocker.

**Results:**

Since treating several reel spools in this manner, the manufacturer has not experienced any failures of this nature. With downtime costs of \$35,000/hr., the maintenance supervisor estimates significant savings for his facility, not including wasted paper that had to be re-wetted and processed.

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