

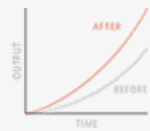
CASE STUDY - WOOD COMPOSITE

DATA INSIGHTS

20%
REDUCTION IN
RELEASE AGENT
USED



INCREASE IN OUTPUT



INCREASE LIFE SPAN OF STEEL BELT



WHAT WE ACHIEVED

An Asia Pacific based company operating for more than 40 years in the manufacture of Medium Density Fibre (MDF) panel boards experienced frequent down time from cleaning the steel belt, especially when working on MDF boards thinner than 7mm. The excessive brushing pressure and frequent cleaning reduced the life span of the steel belts from 9 to 5 years. Besides the rapid wearing out of the belt, the worn-out steel belt affected the quality of MDF boards due to poor heat transfer and inconsistent belt surface quality. By switching to a Chem-Trend release agent, the company was able to reduce the brushing pressure by more than 50% and preserved the steel belt for a longer period of use. The Chem-Trend release agent also reduced the downtime required for cleaning which in turn increased the production volume per cycle. In addition, the Chem-Trend release agent adapted perfectly to the existing spin-disc application system thus no investment was needed.

HOW WE GOT THERE

To better understand the customer's concerns, we visited the plant and discussed the issues being faced. After discussing internally with the regional and global Chem-Trend Wood Composite team, we offered two products for trial, one of which outperformed the competitor's release agent by reducing release agent consumption by 20%, whereas the other Chem-Trend product not only reduced necessary release agent consumption but also reduced cleaning pressure, thereby increasing the life span of the steel belt.

OUR SOLUTION

Through our meticulous trial processes and constant communication with the customer, we managed to choose the most suitable release agent for their process which improved productivity by reducing downtime, producing more panels per cycle, and lowering manufacturing cost by enabling longer use of the steel belt. In addition, the improvement in heat transfer from a longer lasting steel belt has helped in the manufacture of better-quality panel boards.



HANDPRINT IMPACT

At Chem-Trend, we pride ourselves on our long history of sustainability efforts. However, it was the release agent's effect on the customers' processes that caused the greatest impact. The result is also reflected beyond our global coverage.

Here, we have achieved the following:

- Reduced waste
- Reduced release agent consumption
- Reduced energy consumption by reducing maintenance and cleaning downtime



For more information about our wood composite capabilities, our innovations, or other stories, visit CHEMTREND.COM