



Kurita Dropwise Condensation Technology

Online Dropwise Condensation Technology

- Innovative technology to improve heat transfer efficiency
- Improves productivity
- Increases heat exchange rate
- Reduces steam consumption rate

Online Dropwise Condensation Technology


The innovative KURITA DW™ technology provides a new solution to increase heat transfer efficiency remarkably.



Improved productivity



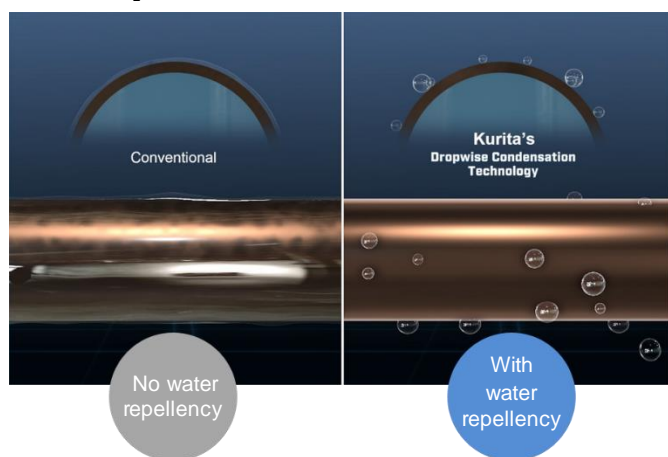
Increased heat exchange rate



Reduced steam consumption rate

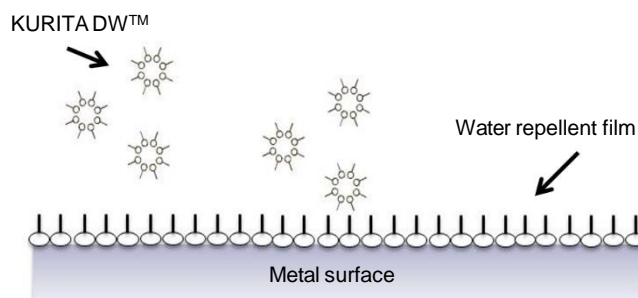
Dropwise Condensation

Increasing in water repellency greatly improves heat transfer efficiency, contributes to productivity improvement and reduces CO₂ emissions.



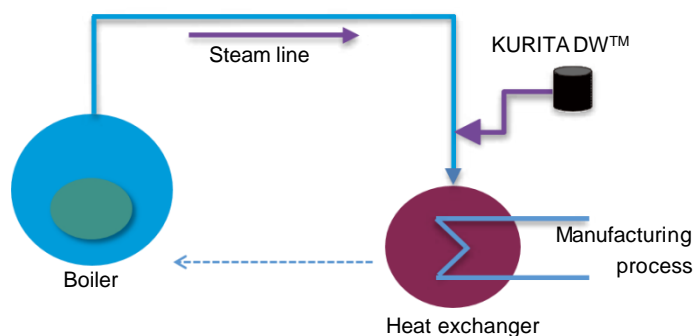
Mechanism

KURITA DW™ series adsorbed on the metal surface increases the water repellency and it changes from water film condensation to liquid film condensation, as a result, increasing heat transfer efficiency.



Application

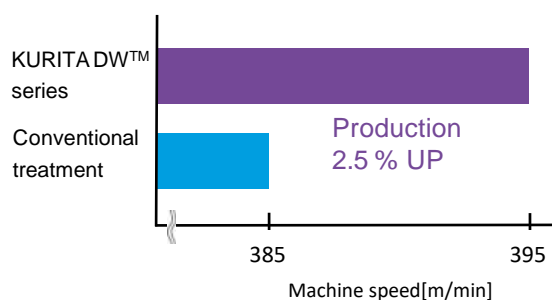
Inject continuously KURITA DW™ to the steam line before the target heat exchanger.



This product does not affect the current boiler water treatment.

Case study (tissue paper factory)

The application of KURITA DW™ improves the heat transfer efficiency at dryer process and increases the production volume.



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