



- Sustainable solution



POWE**RATE**™

POWERATE™ solutions: a new range of minerals to improve machine runnability in the production of virgin and recycled fibre substrates

Key benefits



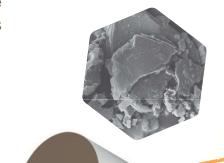
- Optimised production costs by replacing part of the fibres
- Higher (ash) mineral level achieved with similar mechanical properties



- Faster dewatering due to reduced water retention
- Lower drying energy as water evaporates more easily



- Possibility to increase machine speed if dryer limited
- Cleaner machinery, reducing breaks and enabling the use of lower quality fibres





Thousands
of tonnes of board using
POWERATE™

have already been produced with improved machine runnability

POWERATE[™] solutions: a range of mineral-based engineered solutions for all types of virgin and recycled fibre substrates and technical machine configurations



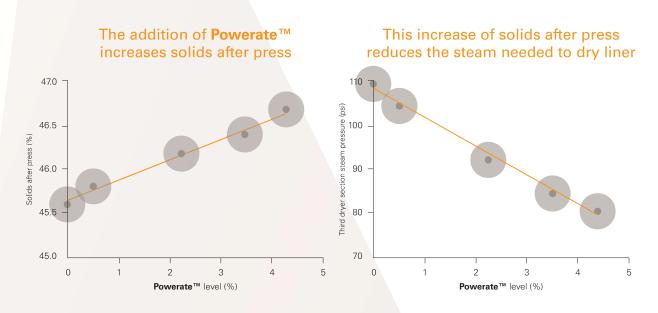
The synergic combination of different benefits to achieve desired performance levels



A tailor-made solution to meet specific customer needs



Example 1: Managing costs and energy consumption with POWERATE™



Steam consumption reductions can be translated into energy savings or production gains



Each 1% higher dry content means savings of 96 MJ or 27 kWh per tonne board -27 Kwh/t for 44.2 t/h means saving of 1.7 M€ /y (KWh = 0.17 €)

POWE**RATE™**

Example 2: Optimising machine cleanliness and runnability with POWERATE™

A **Powerate™** solution was introduced up to 12% in a mill producing cartonboard. In addition to the benefits shown in example 1, this resulted in:



Significant reduction of deposits under the doctor blades and in the press section



Reduction in number of breaks due to stickies of up to -70%



Increased daily production of +8%



Simplification of raw material management allowing the use of lower recycled paper quality













For more information:

paperpa.europe@imerys.com imerys.com

