

FusionSM Strength and Performance Technology

**Flexible Program Designed to
Provide Customized Solutions for Specific Needs**



- Increased strength
- Increased production and yield with lower costs
- Reduced process variation
- Reduced wet-end starch usage
- Reduced freshwater usage

FusionSM Strength and Performance Technology

Achieving sheet strength efficiently and profitably has been a quest of packaging producers for decades. For many years, mills were able to meet their strength requirements using tried-and-true tools such as fiber selection, refining, sheet formation and wet pressing. If they needed additional strength, they turned to wet-end or surface starch to provide incremental strength improvements.

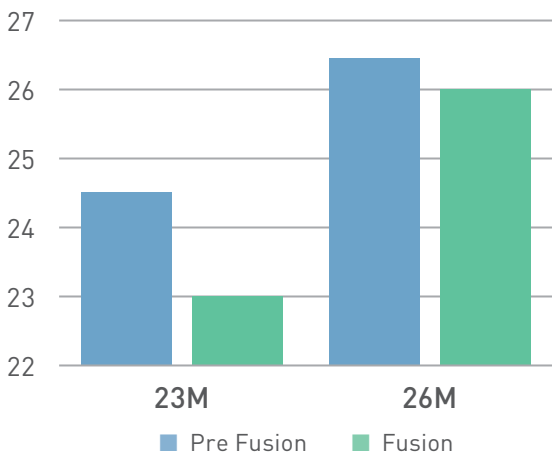
As the pulp and paper industry has dedicated itself to improving sustainability, certain trends have emerged that make it challenging to hit strength targets. These trends include increasing recycle content, decreasing old corrugated container (OCC) quality, increasing water system closure and reducing the weight and/or volume of packaging, which saves energy and raw materials. Single-component strength additive technologies have been challenged to deliver the necessary performance to respond to these trends, even with improved capabilities of newer, more advanced machines.

To overcome these challenges, Solenis recently introduced Fusion strength and performance technology designed to give you complete flexibility to meet your operational needs, from basic strength performance to more radical high-strength improvements.

As a result of these gains, many mills have actually been able to improve their competitive advantage because they can now make grades that weren't possible before the introduction of Fusion strength and performance technology.



Medium 23# and 26# Basis Weight Reduction



Real-world Results

A recycled medium packaging mill was experiencing reduced profits due to higher recycled fiber pricing. Over weighting to meet target STFI and CMT was also occurring. After implementing a Fusion strength and performance technology program on two major grades (23# and 26#), the mill experienced a number of benefits, including:

- Reduced basis weight by 6.1% on 23# Medium
- Reduced basis weight by 1.9% on 26# Medium
- Maintained target speeds
- Achieved net profit improvement of 2.0 M annually

More Information

To learn more, contact your technical sales representative or visit us online.

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