Buckman™
Chemistry, connected.

Trying to meet strength targets while the quality of your incoming fiber keeps deteriorating?

The Challenge:

Meeting strength targets at reduced weight while using poor quality recycled fiber.

The trend to shop online has increased exponentially in recent years. E-commerce is increasing the number of packages shipped around the globe while demanding stronger, lighter boxes.

These boxes are now being collected from homes rather than traditional retail sites, so there are fewer quality controls and the fiber will contain more mixed waste paper. At the same time, most mills are increasing yield by installing new equipment and closing water circuits, meaning less of this poor-quality fiber is being rejected and more of it is being used to make packaging paper.

These trends are impacting the papermaking process and making it more difficult to meet strength demands.

Besides increasing costs, overfeeding chemicals to increase strength and productivity is driving systems to the point of instability in terms of chemical balance, foam generation, machine speeds and paper quality.

Strength and productivity will always be the key drivers for packaging producers. Meeting these goals in a sustainable way that does not compromise stability is the key to long-term success.

Approximately **83% of respondents** said they felt it was **"important or extremely important"** that companies design their products to be more environmentally friendly.[1]

The Solution:

Improve system stability and achieve strength targets

With Buckman's Maximyze® fiber modification enzymatic technology, you can get the most from your fiber by increasing the reactive sites. You can meet target strength while increasing machine speed due to better drainage, which helps you use lower quality fiber without having to overdose chemicals.

By decoupling your wet end chemicals, you will be able to manage your retention and strength programs to be more independent of each other. This will result in improved system stability with less chemical use.

Also, you can have the ability to better utilize the lower quality fiber, which continues to deteriorate with recycle processes that reduce rejects or increasing Kappa and yield from virgin fiber.

By doing this you can reduce the cost of operation and variability while consistently hitting strength targets.

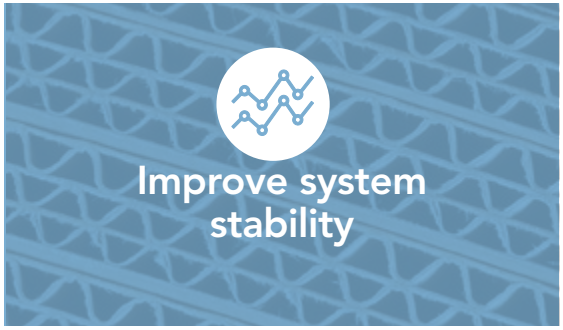
Maximyze offers more reactive sites and more flexibility with changing fiber quality.

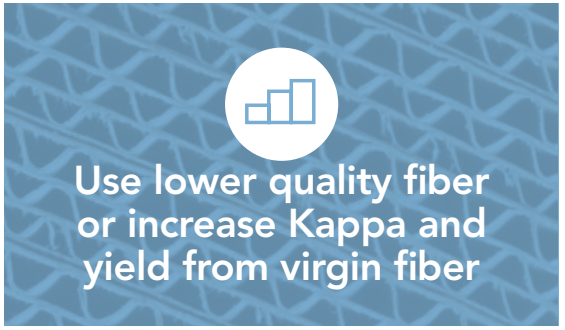
Substantially improve productivity.

Utilizing the common tools to achieve strength and productivity have their limits. Stop using these tools to the point of diminishing return and have a stable operation while meeting your targets now and into the future.

With Buckman, you'll have the ability to **use 50% more mixed waste paper or increase your Kappa by 5–15%**.

You'll be able to:





1. Most Consumers Want Sustainable Products and Packaging, Andrew Martins, Business News Daily, June 4, 2019

Interested in learning more?

Then visit us online to get started.