



**D-Lig<sup>®</sup>  
151**

**IMPROVED  
LIGNIN  
REMOVAL**

**ENHANCED  
OXYGEN  
TRANSFER**

## **Turbocharge your oxygen delignification system with D-Lig 151 from Buckman.**

Now you can accelerate the oxygen delignification process and get superior results with D-Lig 151 from Buckman. It doesn't change the chemistry of the process; it makes it more efficient, enhancing the mass transfer of oxygen to the fiber to achieve a significantly higher rate of lignin removal. With D-Lig 151, you can streamline your bleaching operation, reduce bleach use, improve yield and even improve final brightness out of the bleach plant. Applicable to all wood types, it's the front-end improvement that can yield real back-end savings, ton after ton.

## D-Lig® 151 makes a great process even better.

Your oxygen delignification system is a great investment, reducing kappa gently and significantly lowering bleach plant effluents that adversely affect the environment. But now you can make it even better. Unique in the industry, D-Lig 151 can take your O<sub>2</sub> process to the next level with outstanding results you'll see in the pulp and on the bottom line.

### Better efficiency

In lab tests, D-Lig 151 improved oxygen delignification efficiency by 4 percentage points. And it was found to reduce ClO<sub>2</sub> consumption in the bleach plant by as much as 10 kg/ton (22 lbs./ton).

### More control

Delignification efficiency can be kept constant while parameters of the O<sub>2</sub> stage can be manipulated to either save caustic or reduce viscosity loss in the stage. Keep a constant digester kappa and reduce kappa to the bleach plant to save on bleach chemicals. Keep the kappa to the bleach plant constant and raise the digester kappa to improve wood yield.

### Easy application

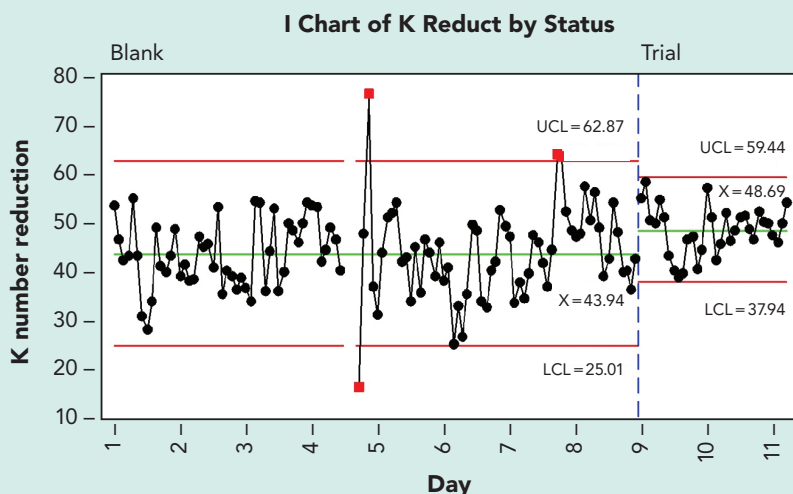
Typically fed at the discharge of the final wash stage prior to the O<sub>2</sub> reactor, it requires no special mixing or high-pressure pumps.

## Real world proof.

How will D-Lig 151 perform in your mill? Here are some results from the field.

A mill increased O<sub>2</sub> delignification efficiency from 43.9 to 48.7%. ClO<sub>2</sub> usage was reduced 12% and peroxide usage was reduced by 44.7%, while final brightness increased slightly.

Another mill increased O<sub>2</sub> delignification efficiency from 39.8% to 41.9%. This reduced total ClO<sub>2</sub> usage from 2.37% to 2.08% and increased final brightness from 88.3 to 89.3 through the bleach plant.



## Better delig delivered.

Let Buckman turbocharge your O<sub>2</sub> delignification system with D-Lig 151. Contact your Buckman representative or visit [buckman.com](http://buckman.com) for more information or to start a trial.

**Buckman**<sup>TM</sup>  
Chemistry, connected.

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