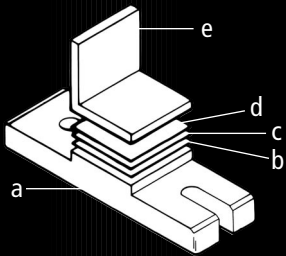


C O R P O R A T I O N

Internal Bond Tester

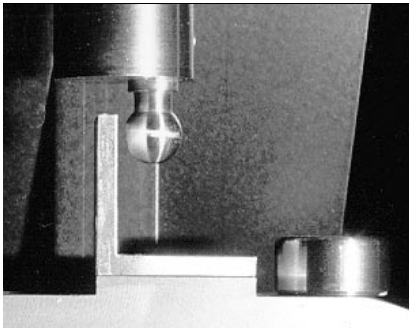
(Scott Method)



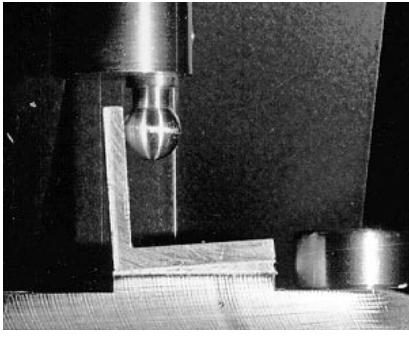
Scott Test Method:

The Concept

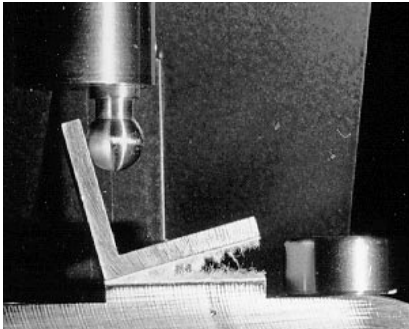
Internal Bond Tester



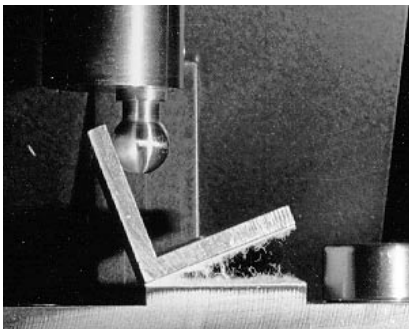
From its inception, the Scott Internal Bond Tester has been used to monitor the effects of dry strength additives and to evaluate stock preparation and refining. In recent years, applications have expanded to include prediction of blistering for coated web offset grades, picking, manufacturer's flap failures, delaminations, ply separations and "shock induced" failures encountered in paper and board converting operations. The common denominator is that these are high speed phenomena/failures that occur in milliseconds.



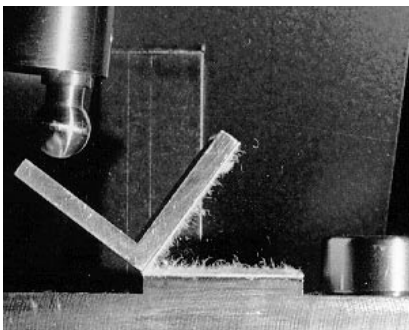
In addition to correlations with customer complaints, in-mill processing trouble-spots are of growing interest. Examples of dry-end analysis are monitoring Z-direction strength deterioration due to calendering or the application of relatively brittle coatings.



The increasing use of recycled fiber and dry strength additives in both paper and board open even more applications and create economic value for the test today. At the product research and development level, sequential photographs of the ruptures can further enhance analysis and understanding.



New Design Enhances Performance



These sequential photographs illustrate that sample rupture is purely Z-directional, without measurable shearing action. The rupture occurred in less than eight milliseconds. Note the explosion of recycled fibers in the last photo.

