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Pulps — Determination of water retention value (WRV)

Pâtes — Détermination de la valeur de rétention d'eau (VRE)



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Foreword

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Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

ISO 23714 was prepared by Technical Committee ISO/TC 6, *Paper, board and pulps*, Subcommittee SC 5, *Test methods and quality specifications for pulps*.

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Introduction

The water retention value (WRV) is an empirical measure of the capacity of a test pad of fibres to hold water. The WRV-value increases with increasing beating because of internal fibrillation, a widening of the small internal pores and delaminations, which has been called "swelling" and which occurs concurrently with the development of external fibrils, which also serve to hold additional water.

This test may be useful for the pulp producer as a guide to the influence of the pulping process on the fibre produced and the papermaking potential of the pulp. It is also useful for the papermaker as a measure of the efficiency of pulping and refining.