

Title (en)
AQUEOUS SILICA-CONTAINING COMPOSITION AND PROCESS FOR PRODUCTION OF PAPER

Title (de)
WÄSSRIGE SILICIUM ENTHALTENDE ZUSAMMENSTZUNG UND VERFAHREN ZUR HERSTELLUNG VON PAPIER

Title (fr)
COMPOSITION AQUEUSE CONTENANT DE LA SILICE ET PROCEDE DE PRODUCTION DE PAPIER

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Abstract (en)
[origin: WO03056099A1] The present invention relates to an aqueous silica-containing composition comprising an anionic organic polymer having at least one aromatic group and anionic aggregated or microgel formed silica-based particles. The aqueous silica-containing composition contains the anionic organic polymer having at least one aromatic group and the anionic silica-based particles in an amount of at least 0.01 % by weight of the total weight of the aqueous silica-containing composition. The aqueous silica-containing composition contains substantially no cellulose-reactive sizing agent and the anionic organic polymer having at least one aromatic group is not an anionic naphthalene sulphonate formaldehyde condensate. The invention further relates to methods for the preparation of the aqueous silica-containing composition and the use of the aqueous silica-composition as a drainage and retention aid in a process for the production of paper. The invention also relates to a process for the production of paper from an aqueous suspension containing cellulosic fibres, and optionally filler, in which the aqueous silica-containing composition and at least one charged organic polymer are added to the cellulosic suspension.

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