

Title (en)

AMPHOTERIC DISPERSANTS AND THEIR USE IN INKJET INKS

Title (de)

AMPHOTERE DISPERGIERMITTEL UND IHRE VERWENDUNG ALS ZUSATZ ZU FARBSTRAHLTINTEN

Title (fr)

DISPERSANTS AMPHOTÈRES ET LEUR UTILISATION DANS DES ENCRE POUR JET D'ENCRE

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Application

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Abstract (en)

[origin: WO2009076567A2] The present disclosure provides a black ink-jet ink, having a pH greater than 7, comprising a first aqueous vehicle, a carbon black pigment, and an amphoteric polymeric dispersant, wherein the amphoteric polymeric dispersant is a block copolymer comprising an A block and a B block, wherein the A block is a segment consisting essentially of an amine monomer; and the B block is a segment comprising an acidic monomer and at least one hydrophobic monomer; wherein the dispersant is neutralized, and with the proviso that the acid number is greater than the amine number, and the B block does not contain an amine monomer. The disclosure further pertains to an ink set comprising this black ink and at least a second ink which contains a reactive species with appropriate cationic agent, salt, or pH capable of destabilizing the carbon black dispersion. Still further, the disclosure pertains to a method of printing wherein the black ink and second ink are printed in an adjacent relationship, thereby minimizing penetration, feathering and/or bleed of the black pigment and improving print quality.

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