Why DEKA?

- ✓ Increased DIP brightness
- ✓ Decreased ERIC value
- ✓ Lower reagent cost
- ✓ Improved recovery
- ✓ Improved contaminant removal
- ✓ Increased flotation kinetics

DEKA Applications

- ✓ Old newsprint (ONP)
- ✓ Old magazine grade (OMG)
- ✓ Mixed office waste (MOW)
- ✓ Sorted office paper (SOP)
- ✓ Sorted White Ledger (SWL)
- ✓ Blends

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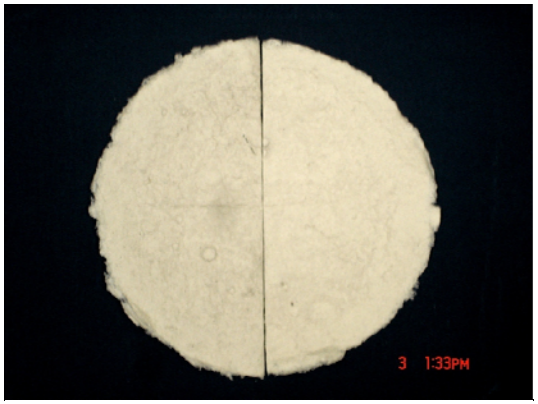
DEKA

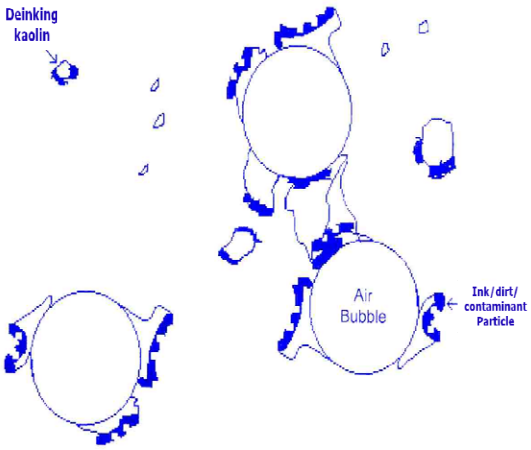
Deinking Technology

Thiele
Tailoring kaolin to your needs.

DEKA Deinking Products



Deinked pads after flotation - DEKA 2000 vs. Surf 2



Collection of ink particles by DEKA 2000*

**Adapted from Fuerstenau, Fine Particle Processing, Vol 1, New York, p 669, 1980*

DEKA Overview

DEKA deinking products combine the improved ink particle-collecting ability of modified kaolin with a deinking surfactant that is proven to provide more efficient separation and removal of ink particles from recycled paper fibers.

DEKA 2000 (for flotation deinking) and DEKA 3000 (for wash deinking) combine the improved ink particle-collecting ability of modified kaolin with a deinking surfactant that is proven to give more efficient separation and removal of ink particles from recycled paper fibers.

Laboratory and plant tests show that the use of DEKA products can improve brightness, lower ERIC values, reduce reagent cost, improve stickies removal, and improve process recovery.

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DEKA Deinking Products

- ✓ DEKA 2000: Flotation Deinking
- ✓ DEKA 3000: Wash Deinking

How DEKA Works

Kaolin is treated with hydrophobizing reagent and then concentrated. This is then blended with the deinking surfactant to produce DEKA.

The fine particle size of ink particles is one of the main causes for the traditionally poor deinking response of recycled paper.

Due to the high hydrophobicity of the modified kaolin particles and their relatively larger particle size, the modified kaolin acts as a collector for these fine ink particles and results in improving the deinking process.

Adding the modified kaolin with a deinking surfactant produces a deinking reagent that gives more efficient separation and removal of the ink particles from the recycled paper fibers.