



The cost-efficient and resource-saving
preparation of enzymatic starch

CAW
technologies

SAVE THE STARCH

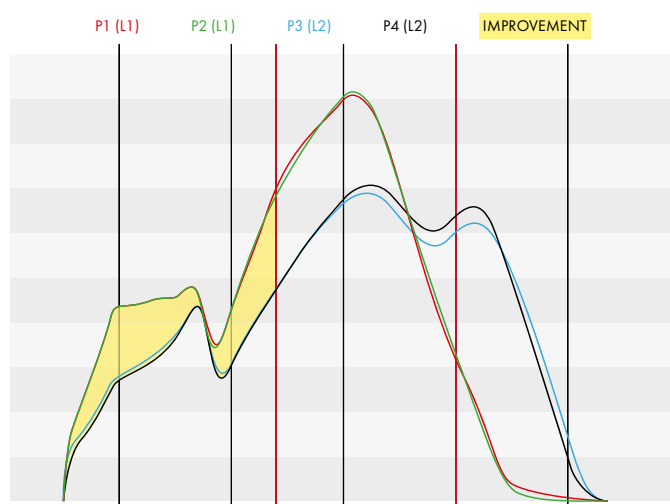
The savings of raw materials and the reduction of energy consumption in additive preparation within the paper and cardboard industry are more important than ever due to high starch prices and extensive energy costs.

STARCH SAVER – YOUR ADDED VALUE

- no loss of starch and no loss of water
- low energy levels
- integrated heat recovery
- continuous and stable operation mode without a sudden pressure rise
- starch production of variable capacities based on demand
- highly accurate slurry, dilution to constant concentration, conversion and dosing
- tailored adjustment for viscosity, molecular weight distribution and concentration
- skid design with many advantages upon customer request
- proven technology - more than 150 references in enzymatic starch preparation

POSSIBILITIES OF INFLUENCE ON MOLAR MASS DISTRIBUTION

The molar mass distribution can be directly influenced via four controllable variables - temperature, dwell time in the converter, enzyme mixing proportion and agitator motor in the converter.



M [g/mol]	< 25,000	25,000 – 1,000,000	> 1,000,000	Mw [kDa]
P1 (L1)	38.1	57.6	4.2	204
P2 (L1)	38.0	58.0	4.0	198
P3 (L2)	28.3	48.9	22.9	863
P4 (L2)	27.5	50.2	22.3	799

CASE STUDY: SAVINGS AT EXISTING UNITS



SAVINGS IN STARCH PROCESSING (THROUGH CONTINUOUS OPERATION AND REDUCED CONCENTRATION/TEMPERATURE FLUCTUATIONS):

STARCH AND ENERGY SAVINGS: € 90,000 / YEAR



MINIMIZING WORKING STATION LOSSES:

STARCH AND ENERGY SAVINGS: € 60,000 / YEAR



TOTAL WASTEWATER/FRESH WATER REDUCTION:

WASTEWATER REDUCTION: 1,193 m³ / YEAR



TOTAL: AROUND € 150,000 / YEAR

For details and further information please contact us.

Email: sales@gaw.at
Tel.: +43 (0) 316 27 04 -100
Web: www.gaw.at