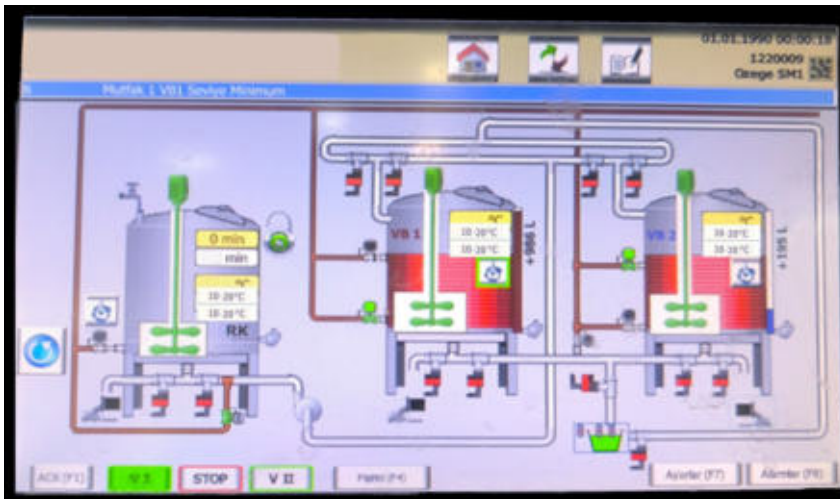


*Innovative Solutions for Sizing Applications*



TEYMUR KIMYA IS A DIVISION OF TEYMUR TEKSTIL

## Innovative Solutions for Sizing Applications T110, T210, and TBZ301, TBZ401, TBZ501



**Accelerate your production process, reduce energy costs, and extend equipment lifespan with T110 – T210 & TBZ301-TBZ401 – TBZ501. Leave behind the limitations of traditional systems and enhance efficiency with a more sustainable solution.**





## About Our Products

**Our innovative materials revolutionize the sizing process by improving efficiency and reducing energy consumption:**

- **T110 and T210 (Primary Sizing Agents):** High-performance powder/granule-based materials that replace traditional sizing agents, ensuring superior adhesion, flexibility, and process optimization.
- **TBZ301-TBZ401 and TBZ501 (Auxiliary Additives):** Advanced liquid-based auxiliaries designed to enhance the performance of T110 and T210, replacing conventional softeners, antistatic agents, and waxes for optimal results.

## Product Applications

- **T110:** Ideal for coarser yarns, from the thickest up to approximately Ne 40/1.
  - **T210:** Best for finer yarns such as Ne 50/1, 60/1, and 100/1 etc..
  - **TBZ301 - TBZ401 - TBZ501 :** Auxiliary products to use T110 and T210
- Universal Fiber Compatibility:** Designed for maximum versatility, our products can be used across all fiber types, including cotton, polyester, viscose, linen and blends. This ensures optimal performance in any sizing process, regardless of the material used.
- Seamless Machine Compatibility:** Our products integrate effortlessly into existing systems, requiring no modifications or special equipment. This enables a hassle-free transition from traditional sizing agents with no additional investment required.



## ✓ **Drastically Reduced Preparation Time**

Traditional sizing methods require heating the mixture to 95°C, followed by 30 minutes of cooking with hot steam, making the total preparation time at least 45 minutes. With T110 – T210 & TBZ301 - TBZ401 - TBZ501, only cold water mixing is needed, allowing all heating and steam systems to remain completely off. This leads to up to 60% energy savings, significantly lowering operational costs.

## ✓ **No Heat, No Energy Waste**

In conventional processes, the prepared mixture must be transferred to resting/transfer tanks, where temperature is maintained using hot steam. Our solution eliminates this need entirely—turn off all heating systems and save energy.

## ✓ **Cold Process Sizing: A Game Changer**

Unlike traditional methods that demand constant heating in the sizing bath, our advanced formula allows materials to be processed without heat, enabling all heating and steam-generating systems to remain off throughout the sizing process.

## ✓ **No Residue, No Waste**

In traditional starch-based methods, starch residues accumulate in tanks, harden over time, and require frequent, labor-intensive cleaning. This increases both maintenance time and labor costs. T110 – T210 & TBZ301-TBZ401 – TBZ501 completely eliminate residue buildup, significantly reducing cleaning efforts and optimizing production.

## ✓ **Works Seamlessly with Existing Drying Systems**

Drying still follows standard company procedures, with no additional temperature adjustments required, making implementation effortless and efficient.



Comparison Criteria	Traditional Starch-Based Method	T110 - T210 & TBZ301-TBZ401-TBZ501
<b>Preparation &amp; Cooking Time</b>	45 minutes (15 min heating + 30 min cooking)	<b>10-15 minutes (only cold water mixing, no cooking required)</b>
<b>Heat Requirement</b>	Requires heating up to 95°C and steam	<b>No heating or steam required</b>
<b>Energy Consumption</b>	High, continuous heating and steam usage	<b>Up to 60% energy savings</b>
<b>Machine Compatibility</b>	Dependent on traditional systems	<b>Compatible with all systems, no additional equipment needed</b>
<b>Production Efficiency</b>	Longer process due to cooking and heating time	<b>Faster preparation, increases production capacity</b>
<b>Residue &amp; Cleaning</b>	Starch residue can accumulate in tanks, requiring frequent cleaning	<b>No residue buildup, reducing cleaning time</b>

## Tradition Starch-Based Method vs. T110-T210 & TBZ301-TBZ401-TBZ501

### Key Benefits of Our Products

#### ✔ Significant Energy Savings:

- No heating or steam required during preparation, cooking, or use, leading to up to 60% energy reduction.
- Drastically lowers production costs by eliminating unnecessary energy consumption. Streamlined &

#### ✔ Simplified Process:

- Unlike traditional starch-based sizing that requires 95°C heating and 45 minutes of preparation, our products only need 10 minutes of mixing with cold water.
- No specialized equipment or process modifications required.



## ✔ Zero Waste & Improved Efficiency:

- No need to discard leftover materials during holidays or downtimes—simply store and reactivate with minimal water.
- Reduces material waste and enhances sustainability.

## ✔ No Residue Buildup:

- Completely eliminates residue in sizing baths and resting tanks, minimizing cleaning time and maintenance costs.
- Prevents clogging and machine downtime, improving overall efficiency

## ✔ Enhanced Equipment Longevity:

- No heat-induced wear on rubber squeeze rollers, significantly extending their lifespan and durability.
- Lower maintenance costs and increased production efficiency.

## ✔ Sustainable & Eco-Friendly:

- Low carbon footprint, natural outputs & reduced water consumption, contributing to an environmentally responsible production process.
- Protects nature from chemical waste and unnecessary energy usage.

## ✔ Superior Weaving Performance:

- Easy sizing removal with cold water, eliminating the need for enzymatic treatments.
- Reduces dust formation in weaving (especially for modal and tencel fibers), making PVA additives unnecessary.
- Maintains color integrity in denim production, optimizing blue shades with less finishing.
- Produces softer fabrics, particularly beneficial for high-quality denim manufacturing.



## **The Next Generation of Textile Sizing**

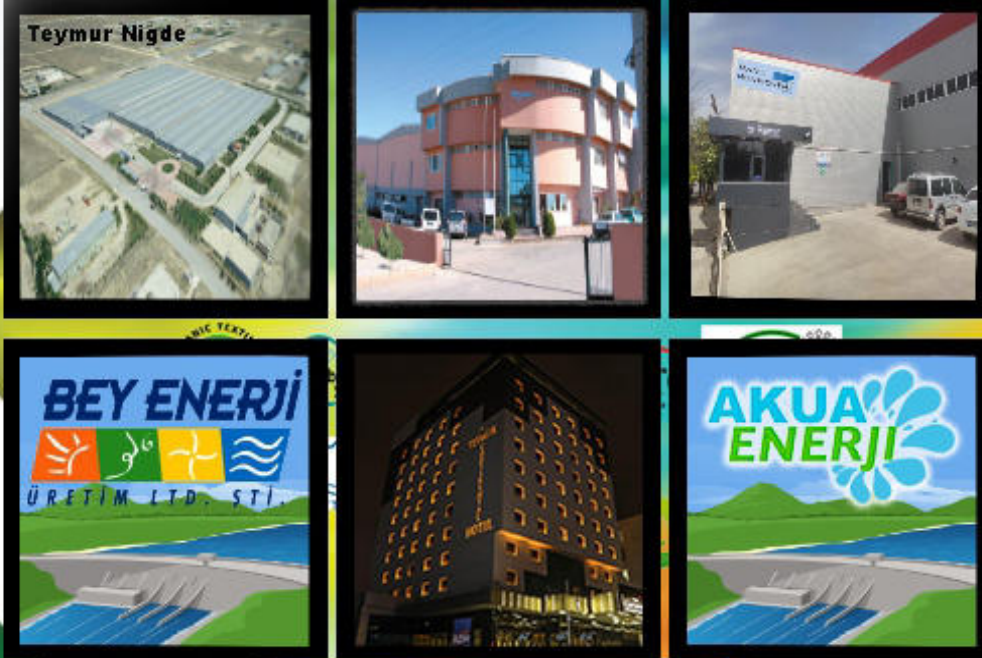
A the forefront of sustainable textile production, our products T110,T210, and TBZ301, TBZ401, TBZ501 offer revolutionary advancements in the sizing process.

Designed for use in yarn sizing, these solutions stand out for their efficiency, cost-effectiveness, and environmental benefits.

**Manufactured by Teymur Kimya.**

**Teymur Kimya is a division of Teymur Tekstil San ve Tic AS**





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