



BREAKTHROUGH PRODUCTS BASED ON BETTER TECHNOLOGY.

NANSULATE ADVANCED INDUSTRIAL PRODUCTS

CASE STUDY

Nansulate Translucent High Heat

**Industrial Nanotech
Distributor:**
Kolorgen Ltd.

Customer
Erenko Tekstil

Location
Istanbul, Turkey

Product
Nansulate Translucent
High Heat

ISSUE:

Decrease production costs, improve energy efficiency, protect equipment from corrosion and moisture.

SOLUTION:

Nansulate Translucent High Heat offered an inexpensive means to increase the lifespan of equipment, protect against corrosion, and decrease the amount of energy used for equipment processes. When applied to heat exchangers, Nansulate High Heat caused a 25% decrease in the amount of time necessary to heat three tons of water to 110 degrees Celsius, a process that the exchangers cycle through several times daily.



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NANSULATE ADVANCED INDUSTRIAL PRODUCTS

Why insulate? Why Nansulate?

Global competition forces manufacturing companies to reduce production costs, where energy and metal prices are increasing rapidly.

Therefore a good way to decrease production cost is to make maximum use of the energy available and to install systems with much longer usable lifetime.

We need to use more technology in both insulation and corrosion protection. It is possible to insulate with conventional materials only to a degree because;

1. you cannot insulate wet areas,
2. conventional insulation does not prevent corrosion, sometimes increases it
3. Useful lifetime of conventional insulation is much less,
4. application of Nansulate is simple and cheap, but takes a longer time.
conventional systems do not offer long term protection against moisture.

We used Nansulate in our textile dyeing and finishing plant; especially for thermal insulation of dyeing machines which operate at 130 C. Our aims were

- i) with a minimum surface temperature reduction of 70 C,
 - a) decrease energy cost
 - b) increase process stability(which would mean increased product quality and decreased re-work)),and process reproducibility
- ii) increase machine metal parts lifetime by increased protection against corrosion
- iii) increase usable lifetime of cold water and steam valves
- iv) decrease dyeing process times.

In this respect, we are aiming to achieve a minimum of 20% gain in energy consumption, and overall 10% reduction in unit material production cost.

You cannot buy energy cheaper, but with a good insulation,you can achieve maximum gains. If you are looking for a solution to insulation as well as corrosion protection, offering long-term usage, Nansulate is the ideal solution.

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