

Very Simple.



Nerteks Ltd. Sti

GEOGRAPHICAL AREA:

Turkey Distributor: Kolorgen Ltd.

Reduce energy consumption for polyester yarn dyeing process.

SOLUTION:

Syanvax™ Heat Shield™ High Heat Insulation coating applied to the exterior of the dyeing machine.

Coverage: 10-coats

RESULTS:

- Reduced energy consumption by 47.5% in total for the 185 minute process
- Lowered the condensed water (used steam) over the process from 4890 kg to 2569 kg - A savings of 2321 kg steam use.
- Measurements were collected over 3-months worth of process cycles and averaged for the savings result
- Insulation coating stood up to the humid dyehouse environment without degrading or losing performance

Award Winning Energy Saving and Asset Protection Coatings



Textile manufacturer Nerteks reduced their energy consumption for yarn dyeing by 47.5% by Insulating their machines with Heat Shield™ High Heat coating.

Energy consumption is measured by measuring condensed water (used steam) through hot water meters.

Side by side measurements were made on both uninsulated and machines coated with Heat Shield™ High Heat thermal insulation coating.

To compensate for hot water meter differences, the meters were taken off one machine and installed onto the other and vice versa.

The measurements were collected over 3 months, and averaged.

Results:

Steam use uncoated: 4890kg Steam use insulated: 2569kg

SAVINGS OF: 2321kg steam per process cycle

ENERGY SAVINGS: 47.5%



Sustainability Simplified.TM Very Simple.



CASE STUDY P. 2 of 2

Award Winning Energy Saving and Asset Protection Coatings

Energy Consumption Data for a Polyester Yarn Dyeing Process Cycle of 185 minutes

	n-insulated Machine ondensed water / kg	Heat Shield™ High Heat Coated Machine condensed water / kg
Heat water from 40°C to 135 (65 minutes)	5°C 1976	1765 10.7 % less
Process at 135°C (40 minute Cool and Drain (25 minutes		345 64.4% less
Heat water from 40°C to 80° (20 minutes)	C 565	100 82.3% less
Process at 80°C (20 minutes Cool and Drain (15 minutes)	,	359 74.0% less
Total	4890	2569 47.5% less

