



CASE STUDY
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Drying Can Insulation
Project

Award Winning Energy Saving and Asset Protection Coatings

COMPANY TYPE

Denim Factory

ISSUE:

Save energy on a difficult to insulate piece of equipment - fabric drying cans

SOLUTION:

Heat Shield™ High Heat thermal insulation & corrosion prevention coating.

RESULTS:

- ✓ 10% reduction in energy consumption
- ✓ Saved 2000 kg (2.2 tons) steam per day
- ✓ Provided a way to insulate equipment that couldn't be insulated with other insulation products
- ✓ Easy, spray-on application
- ✓ Insulation coating does not interfere with the rotation of the drying cans
- ✓ Long lasting performance (5-10 years or more)



When a denim manufacturing company contacted energy efficiency expert, Kolorgen Ltd., they had an interesting challenge. They'd never been able to insulate their rotating drying cans to save energy. This was due to the limited amount of space and the constant rotation during the manufacturing process.

Fiberglass, mineral wool, foam... nothing they found was suitable. That is, until Kolorgen introduced them to Syneffex™ patented thin film thermal insulation technology.

Their steam temperature was 160C (320F) and they were losing a lot of heat energy! The denim factory used Heat Shield™ High Heat thermal insulation coating by Syneffex™ in an easy spray-on application on the ends of the cans that did not interfere with the rotation of the drying can array.

They were thrilled with the savings and grateful to have finally found a solution for energy savings on this equipment.

Bold Plans. Bold Results.

The results speak for themselves. This manufacturing client achieved:

Daily Energy Savings of 2,000 kg (2.2 tons) steam
Overall Energy Savings of 10%

	Before Insulation Coating	After Insulation Coating	Savings
Energy Consumption	0.533 kg steam/ (meter fabric)	0.480 kg steam/ (meter fabric)	-0.053 kg steam/ (meter fabric)
			10% Energy Savings



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Photos

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Additional Details:

Total area: 25 sq. meters (sq. m)

Steam Savings per sq. m: 80 kg

Steam Savings per sq. m per hour: 3.3 kg

Steam Savings per sq. m per hour 1650 kcal-measured

Heat Loss per sq.m per hour 1500 kcal-calculated*

**Measured heat loss is greater than calculated due to rotation of drying cans.*

