



BREAKTHROUGH PRODUCTS BASED ON BETTER TECHNOLOGY.

## NANSULATE® ADVANCED INDUSTRIAL PRODUCTS

# CASE STUDY

## Nansulate® High Heat

### Industrial Nanotech Distributor:

Weltex UK, Ltd.  
[www.nansulate.co.uk](http://www.nansulate.co.uk)

### Customer:

Bandvulc Group



### Location:

United Kingdom

### Product:

Nansulate Translucent  
High Heat

### ISSUE:

Bandvulc Tyres is one of the leading suppliers of commercial remould tyres (remold tires) to the transport industry. They operate at the forefront of tyre technology using the best available machines and quality control systems. They needed to reduce heat transfer on heat exchanger plates used on equipment in their facility.

### SOLUTION:

“Bandvulc Tyres Ltd applied Nansulate to the exterior of a heat exchanger plate. The first coat was applied thinly and left to set for just over 20 days. After this period, the coats were applied more liberally up until the 8th coat. The 8th coat result now shows a temperature difference of roughly 30 degrees C.”

-Calum Williams, Bandvulc Tyres, Ltd.



*(see data and chart on page 2)*

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Note: Study was done before all 8 coats had completely cured. Nansulate reaches its full insulating ability after full cure.

Temperatures are shown in degrees Celsius.

Date applied	2/9/2008	3/28/2008	3/3/2008	3/4/2008	3/7/2008	4/1/2008	4/14/2008
Date: temp taken		3/3/2008	3/4/2008	3/7/2008	3/18/2008	4/4/2008	4/16/2008
Application Coat	1	2	3	4	5	6	7
<b>WITHOUT</b>							
Top		101.5	97.8	98.4	97.5	99.0	98.5
Middle		97.9	96.8	97.0	96.6	98.7	98.0
Bottom		98.5	97.2	96.5	96.6	98.5	97.8
<b>NANSULATE</b>							
Top		91.5	86.6	88.0	81.8	81.0	73.9
Middle		90.1	88.5	85.1	82.8	80.5	74.4
Bottom		92.1	88.4	86.0	85.4	81.1	73.5
Average without		99.3	97.3	97.3	96.9	98.7	98.1
Average with		91.2	87.8	86.4	83.3	80.9	73.9
Temp. Difference (°C)		8.1	9.4	10.9	13.6	17.9	24.2
Change in temp. (°C)		8.07	1.37	1.50	2.63	4.30	6.30
Percentage difference		8.1	9.7	11.2	14.0	18.1	24.6

