

NANSULATE® ADVANCED INDUSTRIAL PRODUCTS

CASE STUDY Nansulate® High Heat

Industrial Nanotech Distributor:

Weltex UK, Ltd. 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 plate.

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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BREAKTHROUGH PRODUCTS BASED ON BETTER TECHNOLOGY.

page 2

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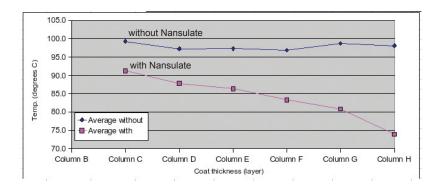


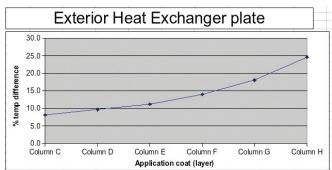


Note: Study was done before all 8 coats had completely cured. Nansulate reaches its full insulating ability after full cure.

Temperatures are shown in degrees Celsuis.

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
WITHOUT			30				<u> </u>
Тор	9	101.5	97.8	98.4	97.5	99.0	98.5
Middle	s s	97.9	96.8	97.0	96.6	98.7	98.0
Bottom	9	98.5	97.2	96.5	96.6	98.5	97.8
NANSULATE			3				
Тор	9	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	9	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	8 8	91.2	87.8	86.4	83.3	80.9	73.9
Temp. Difference (°C)	8 8	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
2	9	\$ 35	35	3	\$ 35	3	





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