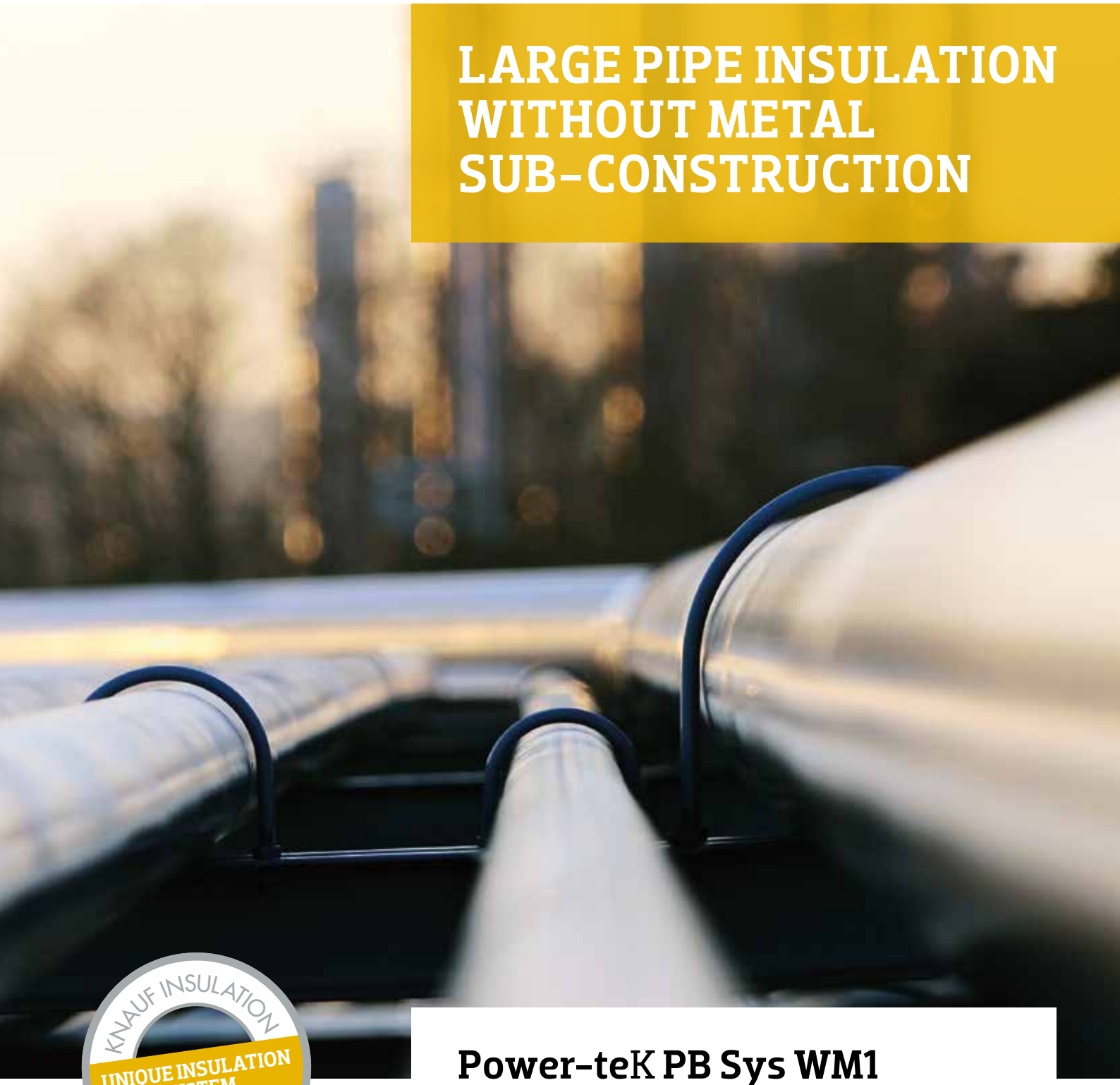
KNAUF INSULATION
Technical Solutions

POWER-TEK

LARGE PIPE INSULATION WITHOUT METAL SUB-CONSTRUCTION



KNAUF INSULATION
UNIQUE INSULATION SYSTEM
INNOVATION

Power-teK PB Sys WM1

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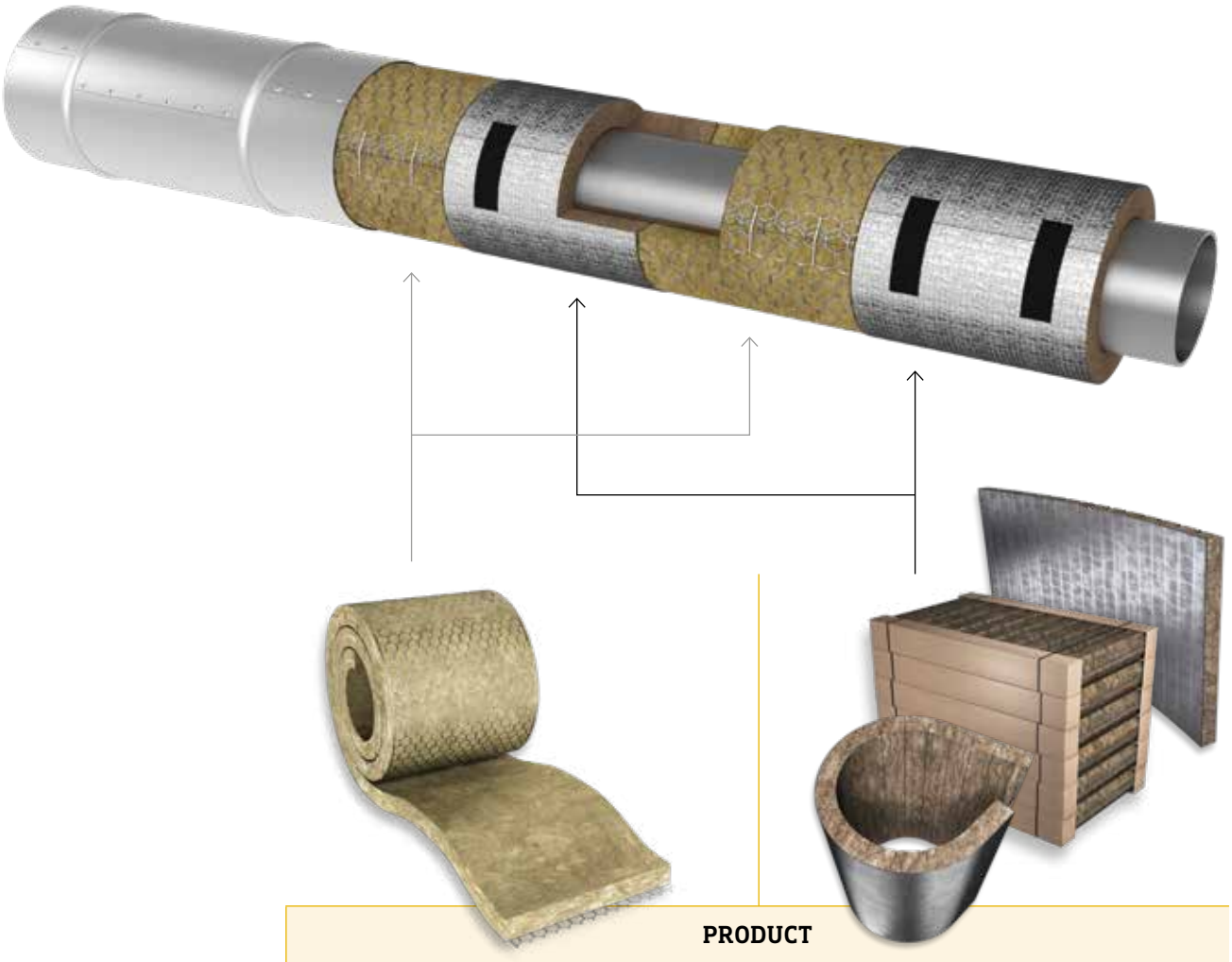
NEW KNAUF INSULATION SYSTEM WITHOUT SUB-CONSTRUCTION

EFFICIENT AND ECONOMICAL WITH A QUICK PAYBACK.

Our unique Knauf Insulation system consisting of **Pipe Belt Power-teK PB 640** and **Wired Mat Power-teK WM 640**, featuring ECOSE® Technology, is designed to withstand forces in such a way that typical **metal sub-construction becomes unnecessary**.



	PRODUCT	
PRODUCT FEATURES	**POWER-TEK WM 640**	**POWER-TEK PB 640**
THICKNESS	30–120 mm	40–160 mm
MAXIMUM SERVICE TEMPERATURE	640 °C	
DENSITY	80 kg/m³	
CERTIFICATES	CE RAL	

STAND ALONE SOLUTION FOR LARGE PIPE INSULATION

This innovative Knauf Insulation solution is a combination of two products, designed for the insulation of large diameter pipes. The innovative system makes expensive metal construction needless, ensures quicker installation times and fewer labor hours leading to an overall **lower cost of installation**.

PRODUCT FEATURES/BENEFITS

The following table shows the advantages of the new Knauf Insulation system Power-teK PB System WM 1 in comparison to traditional solutions for the same application:

	BENEFITS	DISADVANTAGES
Insulation with PB Sys WM 1: 	**Price** ✓ **Installation time** ✓ **Logistic** ✓ **No thermal bridge** ✓ **Compressive strength** ✓	–
Insulation with Pipe sections: 	Installation time ✓	Price ✗ Weight ✗ Logistic ✗
Insulation with Wired Mats and steel sub-construction: 	Known insulation ✓	Thermal bridge ✗ 2 installation steps ✗ Sub construction needed ✗
Insulation with Lamella Mats: 	No sub-construction ✓	Difficult to install ✗ Price ✗ λ-performance ✗

Knauf Insulation Mineral Wool products with ECOSE® Technology benefit from a no added formaldehyde binder made from rapidly renewable bio-based materials instead of petroleum-based chemicals.

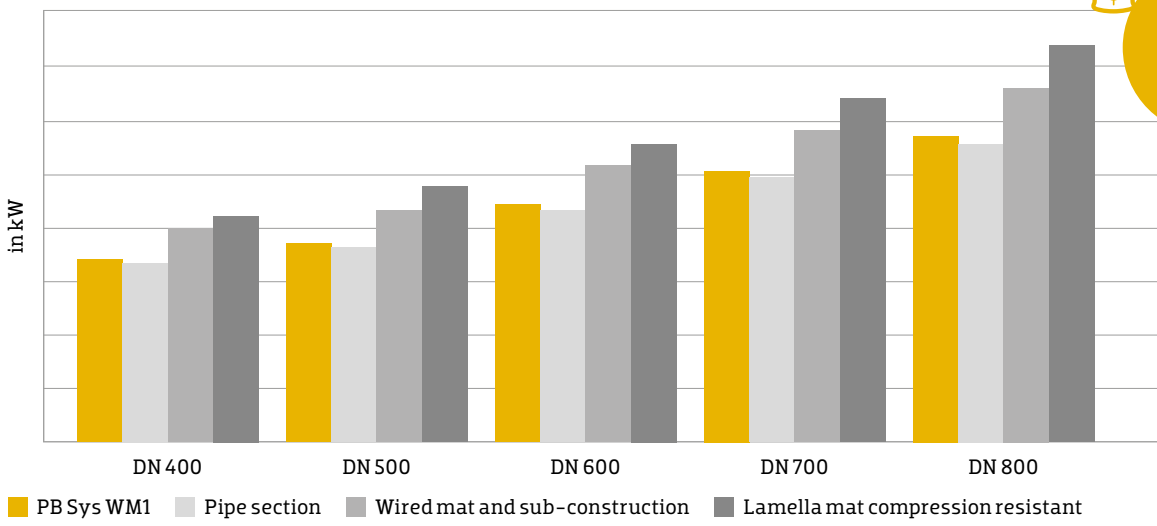
with ECOSE® TECHNOLOGY

MULTIPLE BENEFITS OF KNAUF SYSTEM

COMBINATION OF KNAUF INSULATION PIPE BELT AND WIRED MAT ENSURES RELIABLE COMPRESSIVE STRENGTH

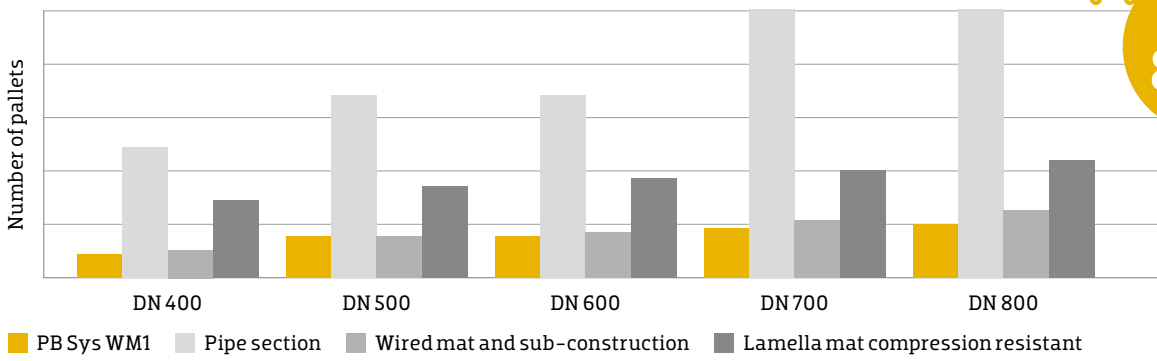
HEAT LOSS SAVINGS

SAVING UP TO 21 %



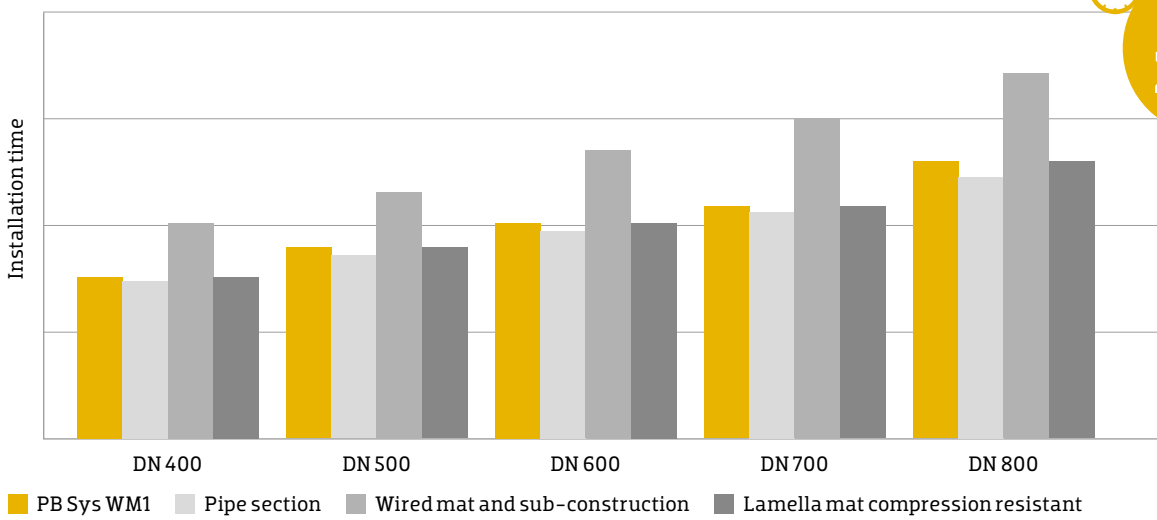
SAVINGS IN LOGISTIC

SAVING UP TO 80 %



INSTALLATION TIME SAVINGS

SAVING UP TO 23 %



TYPICAL APPLICATIONS

For installations on pipe work with diameter bigger than DN 300 in many cases a metal under construction to take forces from the final metal cladding is necessary. Our innovative system consisting of two products provides a solution that can avoid this complicated and expensive additional metal construction.

DESCRIPTION OF THE SYSTEM

- Width of WM and PB is 500 mm
- PB is compressive resistant and has the ability to hold the cladding at the correct distance from the pipe so it can be seen as an insulating element of the sub-construction
- Installation with a necessary air gap between the insulant and cladding is easily possible with a 10 mm thicker pipe belt compared to the wired mat

APPLICATION

- Pipelines bigger than DN 300
- District heating pipelines

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COMPANY PROFILE

Knauf Insulation is one of the most respected names in the insulation industry worldwide with over 40 years of experience and still growing fast. Over 5.500 employees in more than 35 countries and 38 manufacturing sites. Being part of the family-owned Knauf group Knauf Insulation Technical Solutions provides solutions for customers' requirements in industry, marine applications, heating, ventilation and air conditioning. A profound market understanding and insulation know-how enables us to provide a broad range of products to meet your specific needs.