KCCE Heat transfer medium on steam tracer lines and external plate coil systems



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- Low initial cost
- Lower running costs
- Rapid heat raising

- Lower thermal insulation costs
- Lower steam pressure
- Easy to maintain
- System solution

FEATURES

KONDUCT thermal transfer cement has been successfully supplied for over 40 years worldwide to the Chemical Processing, Petroleum, Power, Steel and other strategic industries.

KONDUCT is most commonly used as a heat transfer medium on steam tracer lines and external plate coil systems, producing dramatic improvement in heat transfer, resulting in reductions in the number of tracer lines and the size of plate coils required.

Use of KONDUCT can increase the efficiency of steam tracing up to a similar order to that obtainable by steam jacketing, but at much less cost.

Similar results are also possible when using KONDUCT in conjunction with external cooling systems.

KONDUCT is simple to apply, and safe to handle.

KONDUCT AIDED STEAM TRACING

Steam tracing of pipework and vessels is generally inefficient and difficult to control when compared with efficient electric heat tracing. However, the efficiency of steam tracing may be dramatically improved by the use of Heat Trace's KONDUCT heat transfer cement system.

OPTIONS

- KC1 KONDUCT NO. 1 This is used for 95% of all applications being suitable for a temperature range of -75°C (-100°F) to 600°C (1100°F). Hard when cured.
- KC5 KONDUCT NO. 5 This is a non-setting version of KONDUCT NO. 1 and is used where vibration is likely. It is suitable for a temperature range of -75°C (-100°F) to 100°C (212°F).





SPECIFICATION

	KC1	KC5
MAXIMUM EXPOSURE	600°C	100°C
TEMPERATURE	(1100°F)	(212°F)
MINIMUM EXPOSURE	-75°C	-75°C
TEMPERATURE	(-100°F)	(-100 ^o F)
MINIMUM APPLICATION	0°C	0°C
TEMPERATURE	(32°F)	(32°F)
THERMAL CONDUCTIVITY	170W/mºC	
DENSITY	1489Kg/m ³ Dry	
	1830Kg/m ³ Wet	
SPECIFIC HEAT	0.84 x 10 ³ JKg ⁻¹ K ⁻¹	
SHRINKAGE	Less than 1%	
STRENGTH:		
Compressive	63/77Kg/cm ²	
Tensile	12/14Kg/cm ²	
Modulus of Rupture	92Kg/cm ²	
SHELF LIFE	Indefinite in closed	
	container at 5°C - 35°C	
LIFE EXPECTANCY	Virtually no deterioration	
	due to norm	al ageing
PACK SIZE	20Kg drums	





SYSTEM COMPONENTS



ORDERING INFORMATION

Cement

KONDUCT	Type KC1 or KC5
	Note ¹ : KC5 is non-setting
	Note ² : Konduct is only available in 20kg drums
Traceway Ch	annel
Traceway char	nels are supplied in 1.2m lengths
GT1	for use with 10mm (3/8") or 15mm (1/2") copper steam tracer tubes
GT2	for use with 22mm (3/4") copper or 15mm (1/2") NB steel tracer tubes
GT3	for use with 28mm (1") or 22mm - 28mm (3/4" - 1") steel tracer tubes
Banding Sys	tem
PFS/S	Stainless steel banding strip (12.5mm wide > 30m long)

BUC/S

ΒT

Paint

It is recommended that a primer paint for application to aluminium pipework in order to establish a good bond for the heat transfer cement.

Banding tool

Stainless steel banding buckles (100 per box)

APDS100

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