NO TOLERANCE FOR CROSS-CONTAMINATION
Whether production processes with highly reactive media, the heating or cooling of food, nutrition or tap water – there are applications where there is no tolerance concerning contamination.

ABSOLUTELY RELIABLE SEPARATION OF FLUIDS
GEWA-safe tubes are a tube-in-tube solution featuring defined leakage paths in the tube wall.

COMPACT DESIGN
GEWA-safe tubes enable a very compact design of safety heat exchangers, reducing material and labour costs as well as heat exchanger footprint.

APPLICATION EXAMPLES
• pre-heating of fuel gas for gas turbines
• protection against environmentally harmful substances
• transformer oil water cooler
• drinking water protection according to EN 1717 in heat-pump systems
• heat recovery systems

HIGHEST SYSTEM AVAILABILITY, EFFICIENCY AND SAFETY
Leakages of inner or outer tube are immediately recognisable and can be fixed as part of scheduled maintenance schemes. The excellent thermal conductivity is a result of the metallic contact between the two tubes and provides superior heat transfer as compared to solutions using heat transfer fluid.

DIFFERENT TYPES
Depending on the application, the tubes are available
• with either plain or enhanced outside surfaces,
• in copper, copper-nickel, stainless steel, carbon steel and material combinations,
• in either loose or already bonded version.

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GEWA-safe plain vs. single wall tube

GEWA-safe plain compared to GEWA-safe finned

Test conditions:
tube-in-tube measurement, media: annulus space water @ w=1 m/s, inside tube water, ΔT=10 K, outside diameter:19.05 mm

GEWA-safe plain

GEWA-safe finned

TUBE CONFIGURATIONS

*other dimensions on request

Tube configuration
- outside: plain or enhanced
- leakage paths: longitudinal grooves or diamondback structure
Materials
- copper, copper-nickel
- stainless steel, carbon steel
Tempers
- as drawn / as finned
- annealed
Versions
- loose / bonded

YOUR BENEFITS
• Reliable and safe | Fluid separation due to double wall design with leakage detection.
• Efficient | Excellent heat transfer due to metallic contact without heat transfer fluid.
• Highest system availability | Early leakage detection facilitates scheduled maintenance.
• Compact and economical | More compact heat exchanger design, less footprint.