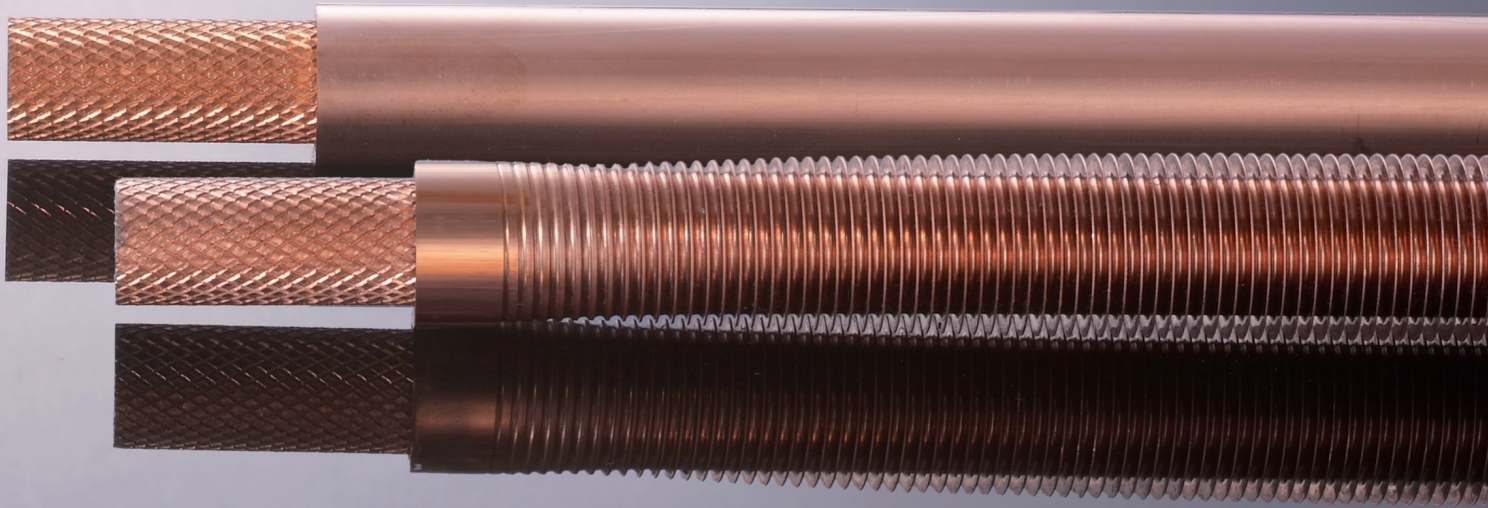


## GEWA-safe

### Wieland double wall tube

**Wieland Thermal Solutions®**  
PROVIDING EFFICIENCY



#### Wieland double wall tube

Wieland double wall tubes (safety tubes) consist of two tubes, i.e. an outer seamless plain or finned tube and an inner tube with a pyramid-shaped structure on the outside surface. The inner and outer tubes are in good thermal contact with each other. Via the pyramid structure leak detection grooves are formed between the inner and outer tube. If one of the tubes forms a leak, these grooves ensure immediate detection of the leak at the tube end.

By using Wieland safety tubes an additional circuit could be eliminated. The main applications of Wieland double wall tubes include safety-relevant purposes such as:

- Hot-water heat pumps for drinking-water tanks
- Heat exchangers for solar heater tanks
- Heat recovery applications

#### Materials and properties

Copper	C12200
Copper-Nickel	C70600

#### Mechanical properties

As finned, as drawn or annealed

#### Types and dimensions

There are three different main standard types

Plain Tube – Picture and Drawing

Finned GEWA-K Tube – 19FPI - Dimensions

Finned GEWA-D Tube – 11FPI - Dimensions

Type	Plain	Finned – GEWA-K 19FPI	Finned – GEWA-D 11FPI
<b>Standard OD</b>	5/8" - 3/4" - 7/8"	5/8" - 3/4" - 7/8"	5/8" - 3/4" - 7/8"
<b>Outer tube</b>	Wall min. 0.04" (1mm)	Wall min. 0.04" (>1mm)	Wall min. 0.04" (>1mm)
<b>Inner tube</b>	Minimum root wall (below pyramid pattern) minimum 0.04" (1mm) or to be specified	Minimum root wall (below pyramid pattern) minimum 0.04" (1mm) or to be specified	Minimum root wall (below pyramid pattern) minimum 0.04" (1mm) or to be specified
<b>Inner tube</b>	Pyramid structure on OD	Pyramid structure on OD	Pyramid structure on OD
	Plain inside / standard knurling outside pitch 0.078" (2mm)	Plain inside / standard knurling outside pitch 0.078" (2mm)	Plain inside / standard knurling outside pitch 0.078" (2mm)
<b>Tooth depth</b>	min 0.0078" (0,2mm)	min 0.0078" (0,2mm)	min 0.0078" (0,2mm)
<b>Tube length</b>	Up to 29 ft (9m)	Up to 29 ft (9m)	Up to 29 ft (9m)
<b>Material Inner tube/ outer tube</b>	Copper C12200 and Copper-Nickel C70600	Copper C12200 and Copper-Nickel C70600	Copper C12200 and Copper-Nickel C70600
<b>Temper</b>	As finned/as drawn or both annealed	As finned/as drawn or both annealed	As finned/as drawn or both annealed

Other alloys or dimensions on request



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