



Wieland GEWA-D Finned Tubes

Medium-high finned tubes for compact coiled and bent heat exchangers

Wieland **GEWA-D** tubes are medium-high finned tubes in copper and copper alloys as well as aluminum, carbon or stainless

steel. Finned tubes of this series resist very high mechanical and thermal stress. For improved heat transfer the inner surface of

GEWA-DW tubes have an additional structure. This also favors very small bending radii and coil diameters.

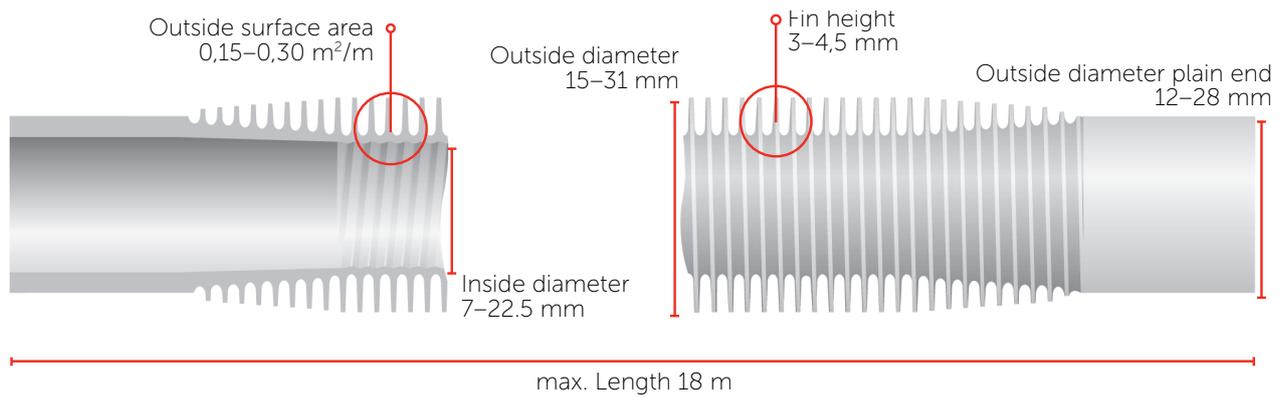
Excerpt from the product portfolio

Tube number	Alloy*	Tube type**	Outside diameter [mm]	Fin height [mm]	Inside diameter [mm]	Outside diameter plain end [mm]	Outside surface area [m ² /m]	Weight approx. [kg/m]
D-1135.12100-00	K21	D DW	19.00	3.50	10.00	15.00	0.18	0.62
D-1135.14100-00	K21	D DW	21.00	3.50	12.00	18.00	0.20	0.72
D-1135.18100-00	K21	D DW	25.50	3.50	16.50	22.00	0.26	0.94
D-1145.18100-00	K21	D	27.50	4.50	16.50	22.00	0.33	1.04
DW-1132.12085-16	K21	DW	19.00	3.20	10.90	15.88	0.16	0.61
DW-1135.18080-16	K21	DW	25.50	3.50	16.90	22.00	0.26	0.81
DW-1133.12079-16	L10	DW	19.05	3.30	10.87	15.88	0.17	0.57
DW-1133.25125-16	L10	DW	31.75	3.37	22.51	28.58	0.33	1.40
D-1135.14175-00	A22	D	21.00	3.50	10.50	16.10	0.20	0.29
DW-1145.11122-16	A22	DW	20.00	4.50	8.56	14.80	0.22	0.23
D-1135.18115-00	O60	D	25.00	3.50	15.70	21.30	0.25	0.87
D-1145.18080-00	O60	D	27.00	4.50	16.40	21.30	0.32	0.90
D-1132.22110-00	P05	D	28.80	3.20	20.20	25.40	0.27	1.12

Fin pitch 11 fins/inch

* K = copper | L = copper-nickel | A = aluminum | O = carbon steel | P = stainless steel

** D = medium high finned + inside undulation | DW = medium-high finned + inside structure



Tube number code system (example D-1135.14100-00)

D-	11	35	14	100	-00	Length [mm]	Tolerances
Tube type	Fins/inch	Fin height [1/10 mm]	Core tube diameter [mm]	Wall thickness [1/100 mm]	Inner structure (00 = plain)	< 2.000	+ 2 mm
						2.000-8.000	+ 1 % (max. 5 mm)
						> 8.000	0,7‰

Advantages

- Optimized inner to outer surface ratio
- Availability of different inner structures for optimum operating conditions
- Compact designs through high specific heat capacity
- Enhanced performance through inner structures

Applications

- Heating industry (hot water tanks)
- Air conditioning and refrigeration (refrigerant condensers and evaporators)
- Mechanical engineering (oil coolers, gas coolers)
- Process engineering

Operating range

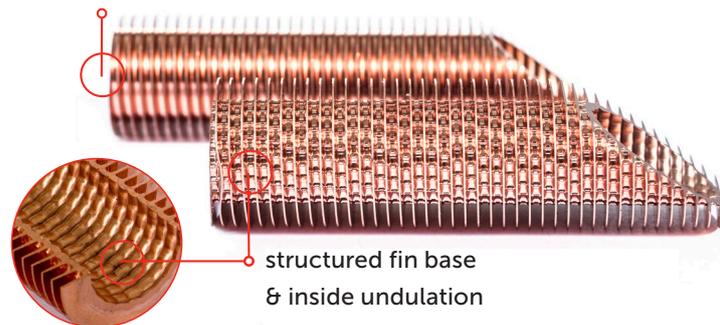
- High-pressure applications up to 134 bar possible (e.g. R744)

Production and processing

The fins are obtained by roll forming the outer surface of a plain tube. This process results in an increase in strength of the finned sections. Plain ends remain soft and have a smaller diameter than finned sections. Soft annealing of the tubes is necessary if they must be suitable for coiling or bending to heat exchangers.

Design of tube ends

- Standard: Cut with a minimum burr
- On request: Brush deburred



Materials			
Wieland	EN-Symbol	Material-No.	UNS-No.
A22	AW-AlMgSi	EN AW 6060	-
K21	Cu-DHP	CW024A	C12200
L10	CuNi10Fe1Mn	CW352H	C70600
O60	P195GH	1.0348	-
P05	-	1.4510	S43035

Quality Assurance

To ensure consistent product quality, Wieland-Werke AG has a sophisticated quality control system according to DIN EN ISO 9001:2015 which has been verified and certified by an independent certification company.

Technical Service

Wieland Thermal Solutions supports from the very early product planning stages in order to obtain optimum results for the manufacturing stage and for your application. The only way to find the best, most cost-effective solution is by means of comprehensive technical consultation based on computer-aided thermal engineering rating.

Materials

The primary material complies with the requirements of DIN EN 12451, AD-2000 Merkblatt W6/2 and on request with ASTM B111 or ASTM B75. For aluminum, carbon or stainless steel standards agreed individually with the customer can be applied. GEWA-D finned tubes are manufactured acc. to Wieland standard R-2200 and DIN EN 12451. On request, a production acc. to VdTÜV 420/2 (harmonized with the European Pressure Equipment Directive PED 2014/68/EU) or ASME SB 359/ASTM B359 is possible.



Contact us

Wieland Thermal Solutions | wieland.com/optimized-heat-transfer

P +49 731 944 1017 **@** thermalsolutions@wieland.com



Wieland-Werke AG | Graf-Arco-Straße 36 | 89079 Ulm | Germany

info@wieland.com | wieland.com

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