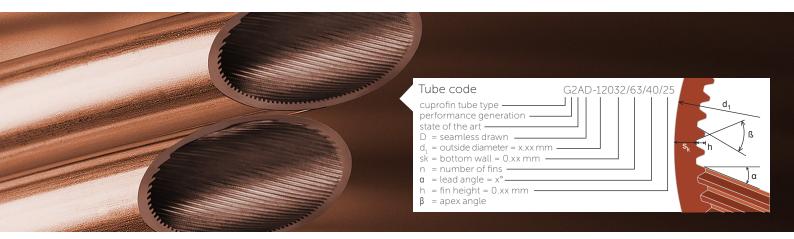


cuprofin®-G

Inner-grooved seamless drawn copper tubes



Application

Wieland cuprofin-G tubes are highly efficient heat transfer tubes, which are specifically designed for recooling of liquids such as water-glycol mixtures. The grooves on the inside of the tubes are optimised for single-phase heat transfer, allowing the development of more compact heat exchangers.

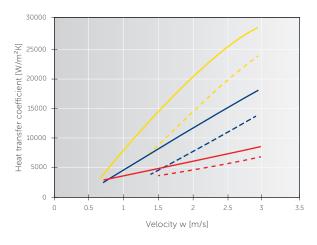
Form of delivery

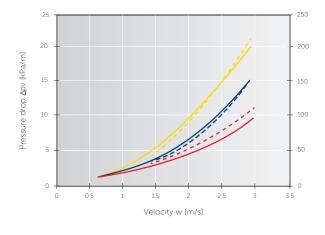
Level-wound coils									
Material	Copper Cu-DHP	Copper C12200	Copper SF-Cu						
Standard	EN 12735-2*	ASTM SB 359	VdTÜV 420/6*						
Temper	annealed Y040	light annealed O50	annealed F22						
Straight lengths									
Material	Copper Cu-DHP	Copper C 12200	Copper SF-Cu						
Standard	EN 12735-1*	ASTM SB 359	VdTÜV 420/7*						
Temper	hard R 290	hard drawn H80	hard F 36						

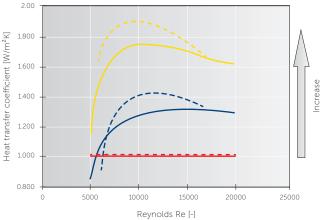
^{*}Conforms to the Pressure Equipment Directive PED 2014/68/EU.

d ₁		S _k	h	n	α	Weight approx.	Tube code
mm	inch	mm	mm	-	•	[g/m]	
12.00	-	0.32	0.25	63	40	127	G2AD-12032/63/40/25
12.70	1/2	0.36	0.25	63	40	147	G2AD-12736/63/40/25
12.70	1/2	0.40	0.25	63	40	161	G2AD-12740/63/40/25
15.87	5/8	0.40	0.30	68	40	206	G2AD-15840/68/40/30

Other types and wall thicknesses are available upon request.







Test conditions

Tube dimensions [mm]: cuprofin-G 12.7×0.36 cuprofin S2AD 12.7×0.36 plain tube 12.7×0.36

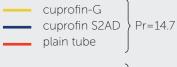
Anti freeze agent: Antifrogen L30 % (1.2-propylene glycol)

Formula

α; cuprofin®

Efficiency = α ; plain tube Δpv , cuprofin® Δpv , plain tube

Efficiency means the increase of the heat transfer coefficient α , of the cuprofin-tube referring to the increase of pressure drop Δpv . For each case the reference is the plain tube (efficiency = 1).



cuprofin-G
cuprofin S2AD
Pr=24

					This leaflet	
Tube Type	Standard	E	EDX	С	G	L10
Tube Application	evaporation condensation	evaporation	evaporation	condensation	single phase heat transfer	evaporation condensation
Process Application	fin coils shell & tube	fin coils	shell and tube evaporation	fin coils	highly viscous liquids	seawater
Material	copper	copper	copper	copper	copper	cupro nickel