wieland

cuprofin®-L10

Inner-grooved seamless drawn cupronickel tubes for seawater applications



Application

Wieland cuprofin-L10 tubes are highly efficient heat transfer tubes, which are especially qualified for seawater applications and other saline water, as well as their environment (e.g. coastal area). This is due to the very high resistance of L10 to corrosion and erosion through fast-flowing, saline water, in particular seawater, and also to the insensitivity to stress corrosion and corrosion fatigue in these fluids.

Form of delivery

Level-wound coils									
Material	Cupronickel CuNi10Fe1Mn	Cupronickel C 70600							
Standard	Wieland R-1191	ASTM B 359							
Temper	annealed R290 (EN 12451*)	annealed O61							
Straight lengths									
Material	Cupronickel CuNi10Fe1Mn	Cupronickel C 70600							
Standard	Wieland R-1190	ASTM B 359							
Temper	annalead R290 (EN 12451*) hard	annalead 061 on request							

*Particular material appraisal 3.2 required for conformity to the Pressure Equipment Directive PED 2014/68/EU.

d ₁		s _k	h	n	α	Weight approx.	Tube code
mm	inch	mm	mm	-	o	[g/m]	
7.94	5/16	0.40	0.18	50	18	95	S2AD-79440/50/18/18
8.00	-	0.40	0.18	50	18	95	S2AD-80040/50/18/18
9.52	3/8	0.45	0.20	60	18	129	S2AD-95245/60/18/20
12.00	-	0.50	0.25	70	18	186	S2AD-12050/70/18/25
12.70	1/2	0.50	0.25	70	18	196	S2AD-12750/70/18/25
15.00	-	0.56	0.30	75	18	265	S2AD-15056/75/18/30
15.87	5/8	0.58	0.30	75	18	288	S2AD-15858/75/18/30

Other types and wall thicknesses are available upon request.

Evaporation

Heat tranfer performance





Mass flow rate [kg/m²s]

Condensation Heat tranfer performance



Test conditions Evaporation – 9.52 mm tubes tc = 0 °C superheat ~5 K, inlet quality 20 % tube length 2 m Pressure drop





cuprofin standardplain tube

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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

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