Pipe heat loss analysis report

Data di esecuzione: 2025-01-13 10:00:19

Versione: heatloss4

Units of measurement

_	Physical Quantity	Unit of Measurement	Symbol
0	Length	Meter	m
1	Nominal Diameter	Inch	"
2	Diameter	Millimeter	mm
3	Thickness	Millimeter	mm
4	Thermal Conductivity	Watt/(Meter*K)	W/mK
5	Pressure	Bar gauge	Barg
6	Temperature	Celsius	degC
7	Velocity	meter/second	m/s
8	Flow	Kilogram/hour	kg/h
9	Specific Heat	Kilocalories/Kilogram	kcal/kg
10	Emissivity	Joule/(meter^2*second)	J/(m^2*s)
11	Heat transfer	Watt/hour	W/h

General Data

	JAccount	Project	Location	Wind	Ta
0	job code	project title	location	6.0	21.0

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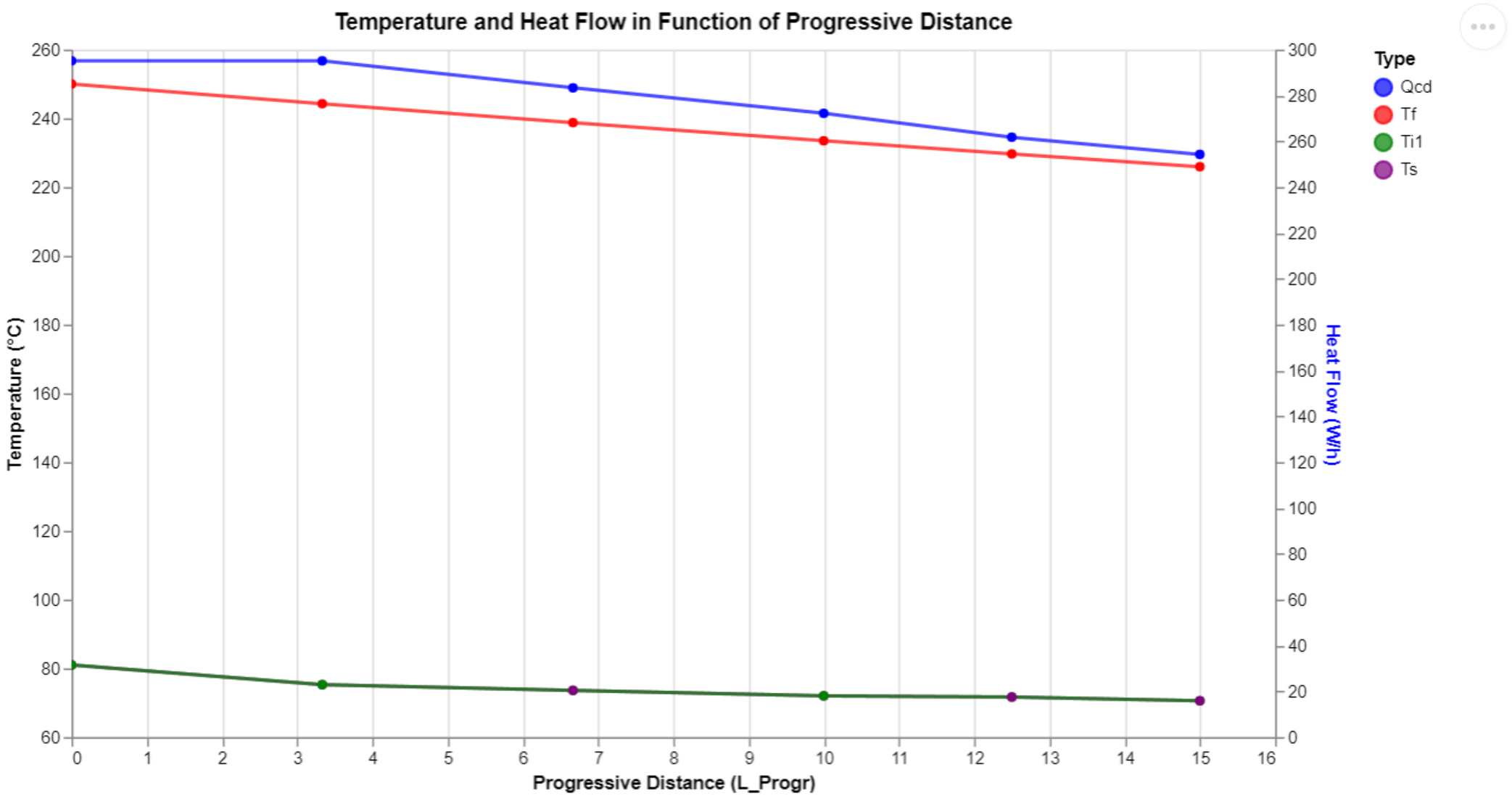
Piping Data

	Name	Material	Type	Conductivity	Length	numItems	numSubd	Diameter	Thickness	Layers	codeInsul	insulThk	Pressure	Temperature	Flow	cal_spc	finish	Emissivity	condFinish	ThkFinish	autoTF
0	Tratto 1	Carbon Steel	straigth pipe	55.0	10.0	0	3	2 1/2	4.37	1	['i12']	[10.0]	1.2	250.0	100.0	1.0	Aluminum Paint	0.5	225.0	0.01	True
1	Tratto 2	Carbon Steel	straigth pipe	55.0	5.0	0	2	2 1/2	4.37	1	['i12']	[10.0]	1.2	250.0	100.0	1.0	Aluminum Paint	0.5	225.0	0.01	True

Output

Section	Segment	Length	L_Progr	Qcd	Qcd_segment	Tf	Tmetal	Ti1	Ts
0.000	0.000	0.000	0.000	295.102	0.000	250.000	249.891	81.000	81.000
0.000	0.000	3.333	3.333	295.102	983.674	244.271	244.162	75.271	75.271
0.000	1.000	3.333	6.667	283.320	1928.074	238.769	238.665	73.598	73.598
0.000	2.000	3.333	10.000	272.203	2835.416	233.482	233.382	72.013	72.013
1.000	0.000	2.500	12.500	261.798	654.494	229.657	229.560	71.674	71.674
1.000	1.000	2.500	15.000	254.289	1290.216	225.941	225.847	70.584	70.584


Temperature and Heat Flow in Function of Progressive Distance
Temperature (°C)
Heat Flow (W/h)
Progressive Distance (L_Progr)
Type
Qcd
Tf
Ti1
Ts
260
240
220
200
180
160
140
120
100
80
60
300
280
260
240
220
200
180
160
140
120
100
80
60
40
20
0
0
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