

Ambient temperature 21C/69F Chart of average thickness of HPC and operating temperature to bring HPC surface temperature down to the safety for a touch per OSHA requirements

Average fluid temperature in the pipe		Thermal conductivity HPC	Average thickness HPC	Average thickness HPC	Temperature on the surface of HPC	
°F	°C	(W/m°C)	(mm)	mils DFT	°F	°C
200	93	0.071	5	197	110	43.1
300	149	0.071	7	276	136	57.8
400	204	0.083	14	551	138	59.1
500	260	0.083	20	787	139	59.3
600	315	0.094	28	1102	140	60.0
700	371	0.094	35	1378	138	59.0
800	427	0.106	45	1772	139	59.3
900	482	0.117	55	2165	140	59.7

This chart was calculated for 6" OD steel pipe with 4mm thickness and yearly average temperature +21C./69F