

Ambient temperature 34C/93F 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	117	47.1
300	149	0.071	8	315	140	59.9
400	204	0.083	17	669	140	59.7
500	260	0.083	25	984	138	58.8
600	315	0.094	35	1378	139	59.3
700	371	0.094	42	1654	140	59.6
800	427	0.106	53	2087	140	60.0
900	482	0.117	66	2598	140	60.0

This chart was calculated for 6" OD steel pipe with 4mm thickness and yearly average temperature +34C/93F.