HI-TEMP COATINGS TECHNOLOGY®

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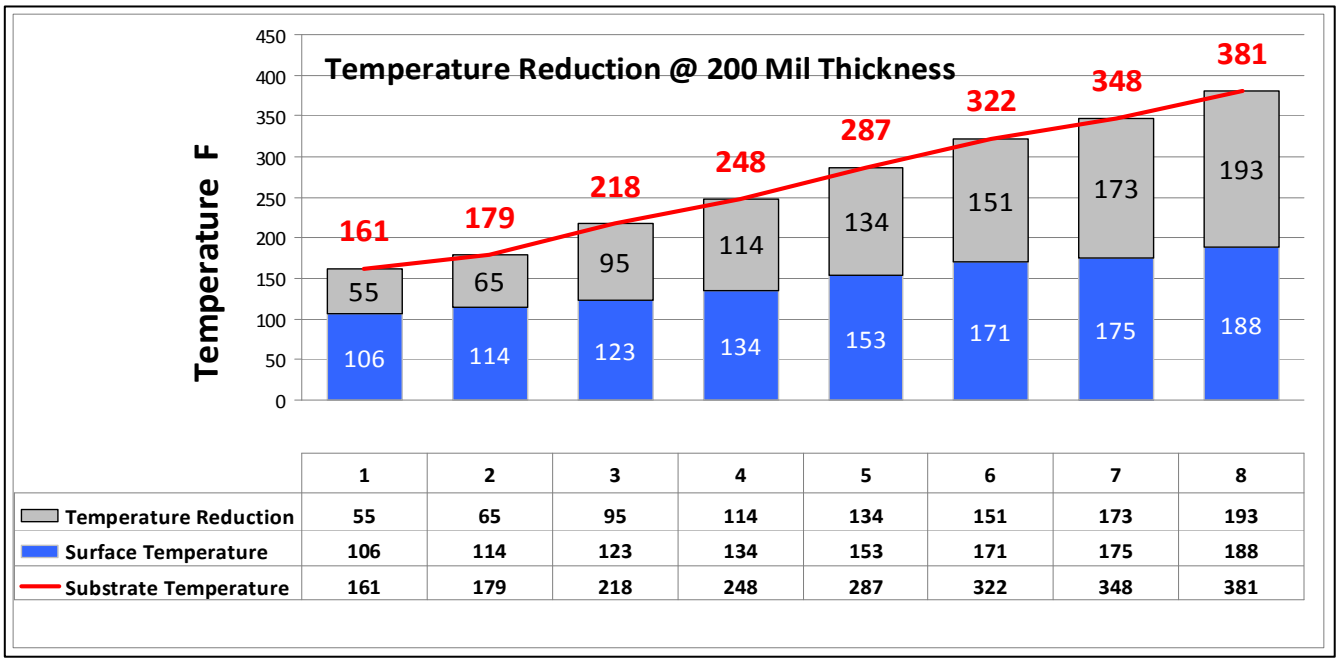
Hi-Temp 707 Temperature Reduction Test

The graphs below represent steel test panels, primed with Hi-Temp 1027 then coated with a specific thickness of Hi-Temp 707 Thermal Interface Coating. Coated panels were allowed to dry and the thickness of Hi-Temp 707 Thermal Interface Coating was measured with an Elcometer dry film thickness gauge. These panels were placed on a hot plate and permitted to stabilize at the different temperatures shown. Using an MS 6500 K-Type direct contact thermometer, temperature measurements were taken from a bare spot (coating scraped off) on the steel substrate, and then on the insulated surface. Three individual measurements were made and averaged for each reported value. Each individual measurement was "read" after the thermocouple read out had stabilized. This picture represents the test set up. Actual results may vary.

The top (red) number on each bar of the graph shows the measured substrate temperature without insulation. The blue (lower) portion of the bar shows the temperature measured on the insulated surface. The gray portion of the bar shows the temperature reduction in relationship to the thickness of Hi-Temp 707 Thermal Interface Coating and substrate temperatures



	1	2	3	4	5	6	7	8
Temperature Reduction	55	65	95	114	134	151	173	193
Surface Temperature	106	114	123	134	153	171	175	188
Substrate Temperature	161	179	218	248	287	322	348	381

Measured temperatures of thermal interface coatings vary depending on type of thermometer used and method of measurement. Measured temperatures are higher and differentials are less than the perceived "feels like" temperatures per ASTM C 1055.

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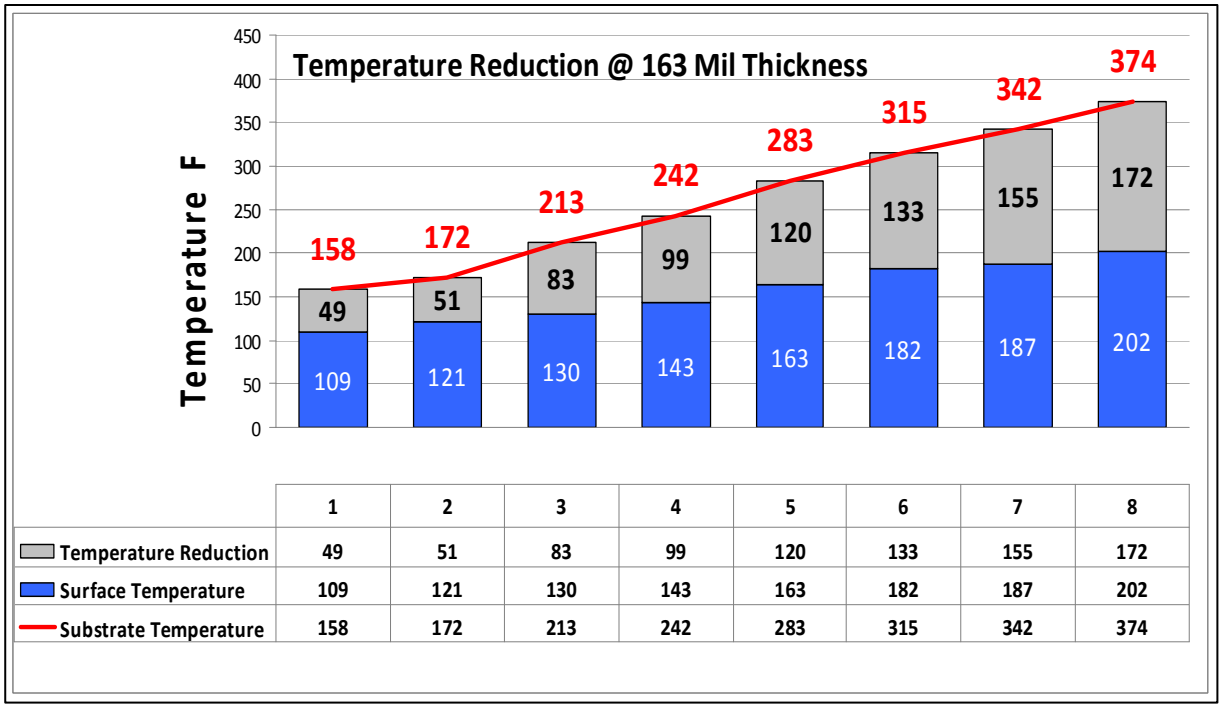
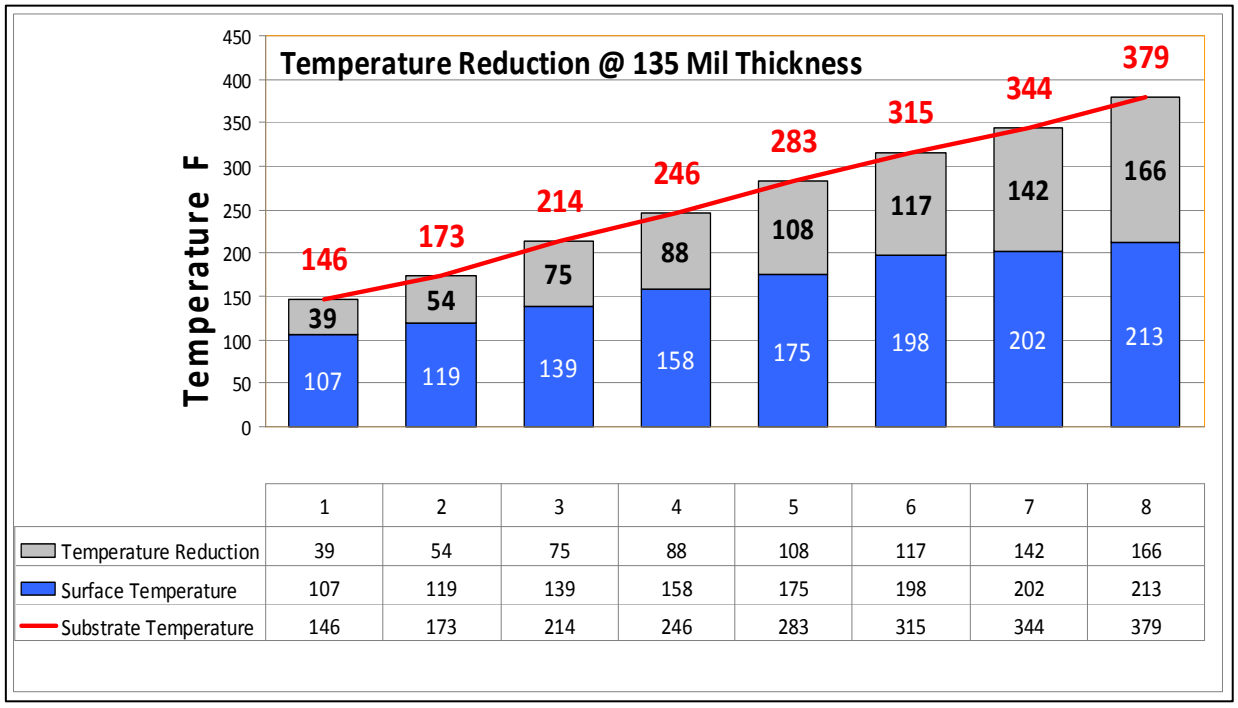


	1	2	3	4	5	6	7	8
Temperature Reduction	49	51	83	99	120	133	155	172
Surface Temperature	109	121	130	143	163	182	187	202
Substrate Temperature	158	172	213	242	283	315	342	374



	1	2	3	4	5	6	7	8
Temperature Reduction	39	54	75	88	108	117	142	166
Surface Temperature	107	119	139	158	175	198	202	213
Substrate Temperature	146	173	214	246	283	315	344	379

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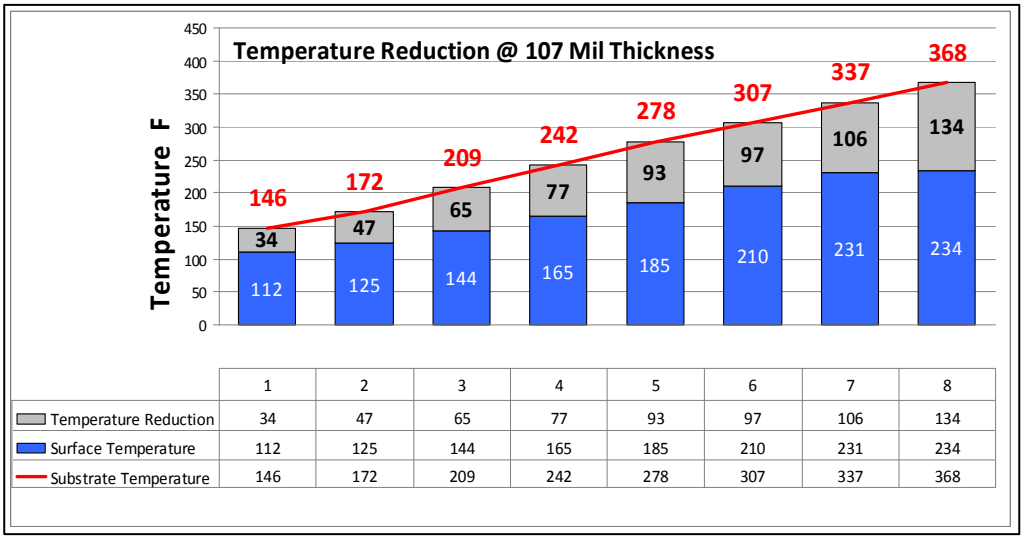
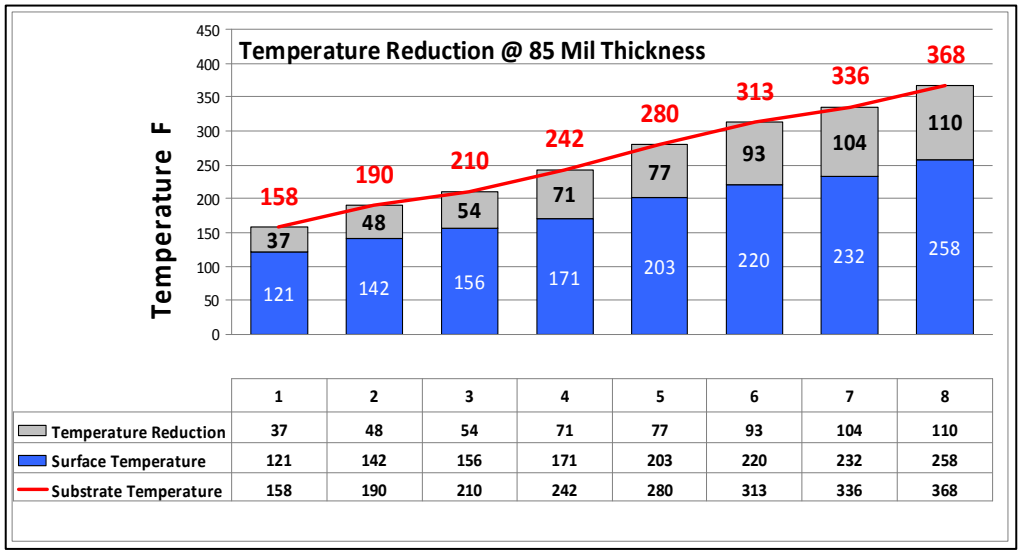
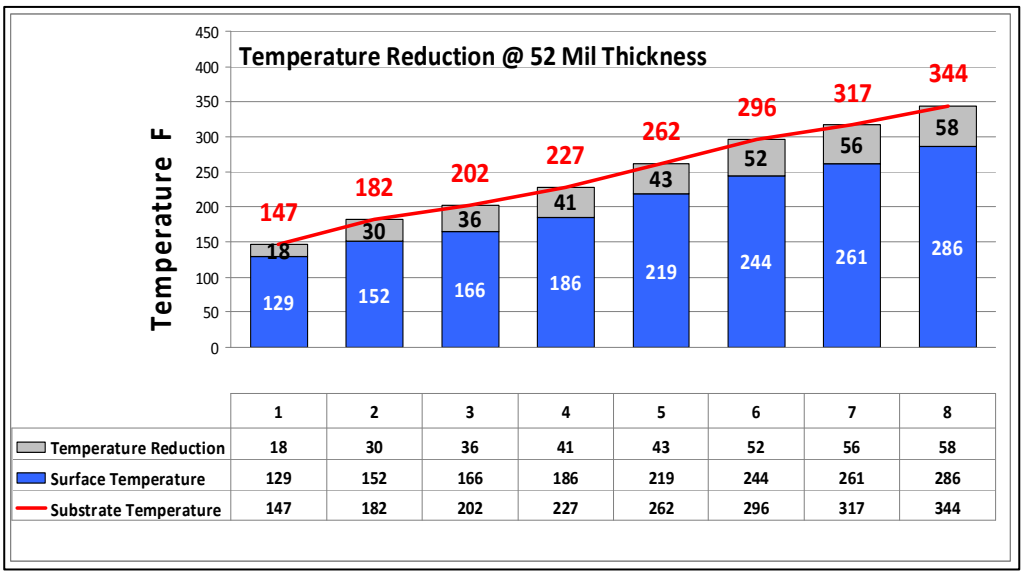


	1	2	3	4	5	6	7	8
Temperature Reduction	34	47	65	77	93	97	106	134
Surface Temperature	112	125	144	165	185	210	231	234
Substrate Temperature	146	172	209	242	278	307	337	368



	1	2	3	4	5	6	7	8
Temperature Reduction	37	48	54	71	77	93	104	110
Surface Temperature	121	142	156	171	203	220	232	258
Substrate Temperature	158	190	210	242	280	313	336	368



	1	2	3	4	5	6	7	8
Temperature Reduction	18	30	36	41	43	52	56	58
Surface Temperature	129	152	166	186	219	244	261	286
Substrate Temperature	147	182	202	227	262	296	317	344

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