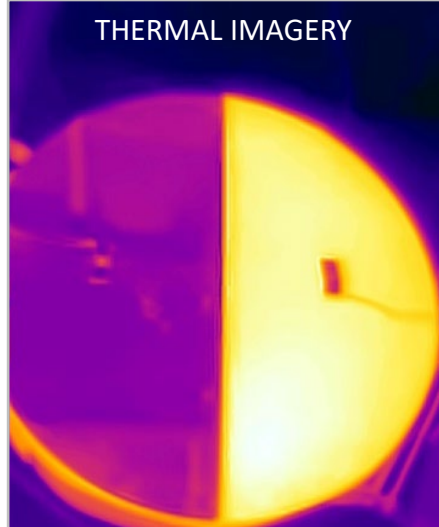


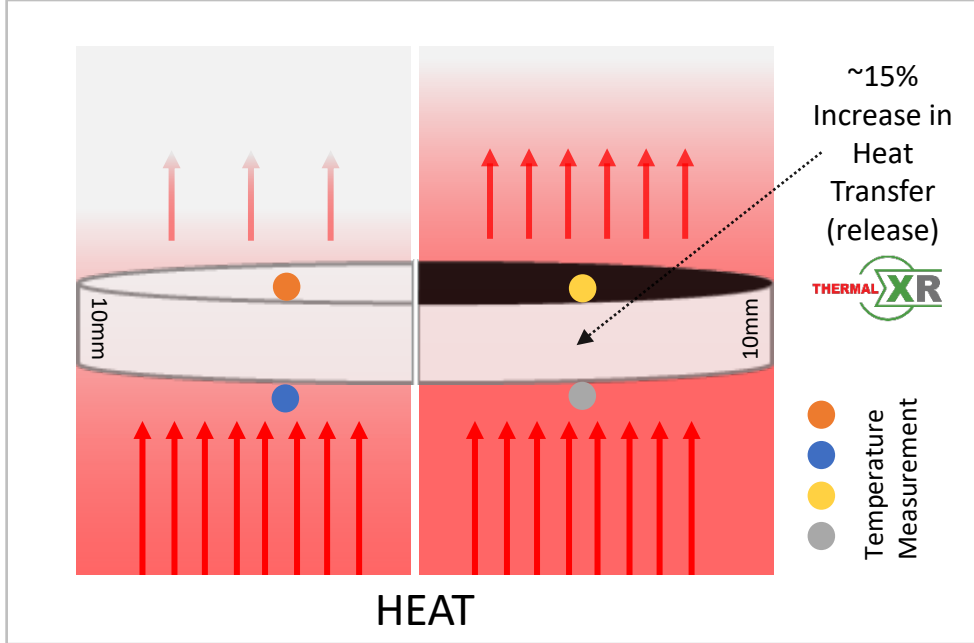
SUPERIOR HEAT TRANSFER | KILN DEMONSTRATION



Kiln with Aluminium Plates



UNCOATED BARE ALUMINIUM



UNCOATED BARE ALUMINIUM

STANDARD HEAT TRANSFER THROUGH ALUMINIUM



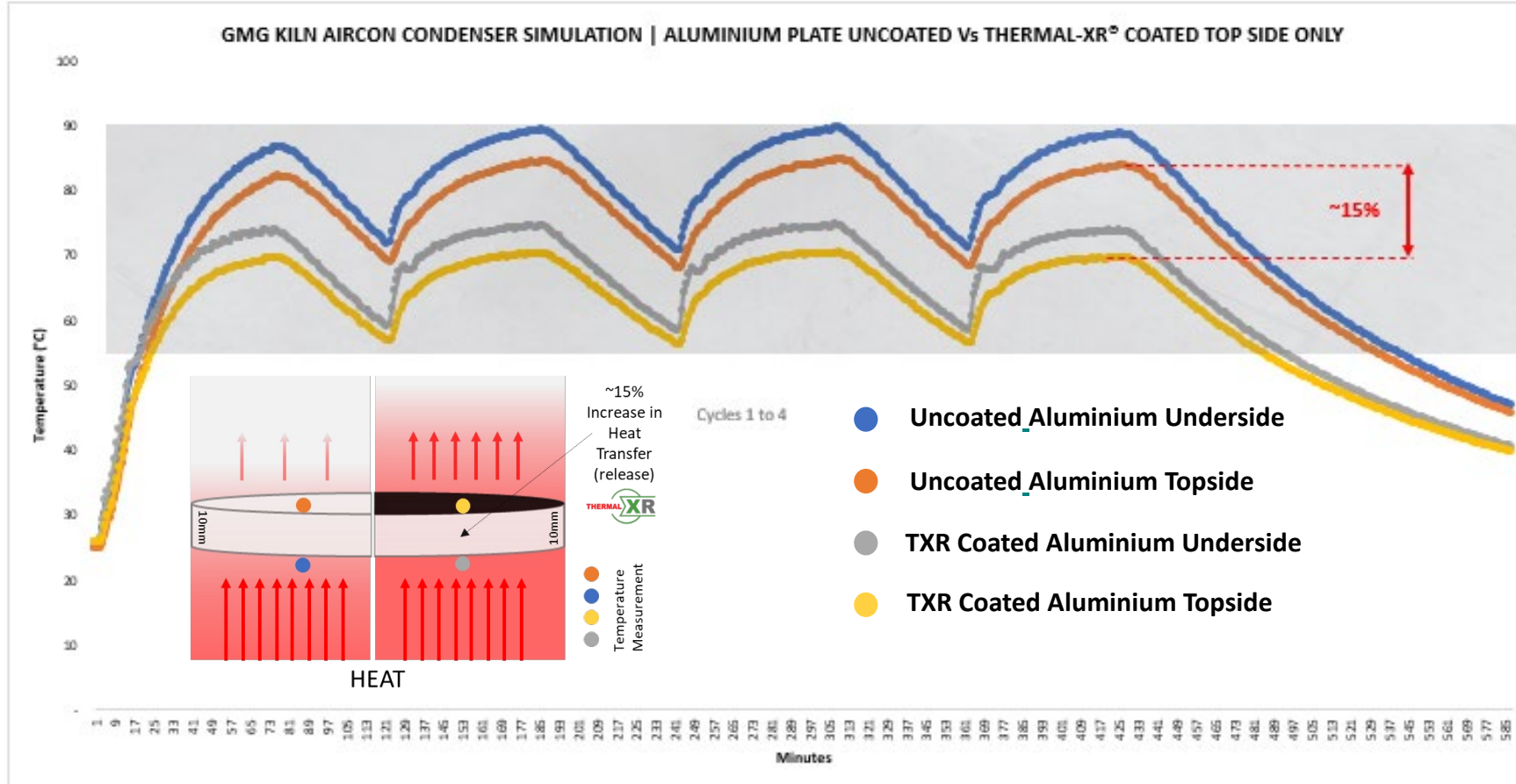
THERMAL-XR® COATED ALUMINIUM TOP SIDE ONLY

SUPERIOR HEAT TRANSFER THROUGH THERMAL-XR®

INCREASED HEAT TRANSFER
 ~15% between 60°C and 90°C

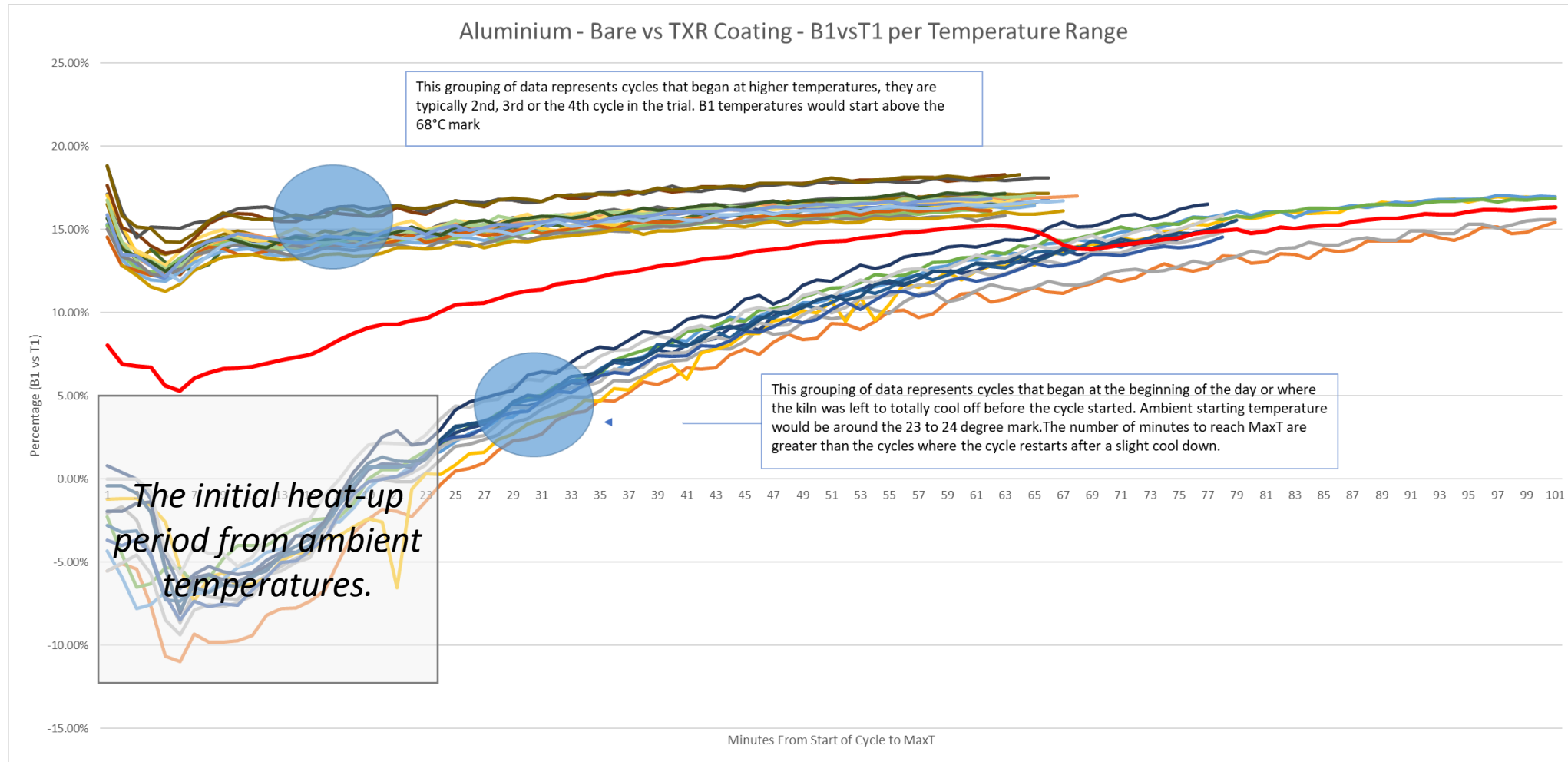
Verified by The University of Queensland

SUPERIOR HEAT TRANSFER | KILN DEMONSTRATION



Verified by The University of Queensland

SUPERIOR HEAT TRANSFER | KILN DEMONSTRATION



Bare Metal vs TXR Coated Metals

Statistical Confidence Levels

Monitored Kiln Tests

Bare Metal Temperature % Higher Than TXR Coated Metal



Temperature Range (°C)			Confidence Level 90.00%		Confidence Level 95.00%		Confidence Level 99.00%	
Min (°C)	Max (°C)	Instances	Lower	Upper	Lower	Upper	Lower	Upper
70.00	74.99	1147	14.78%	15.43%	14.72%	15.49%	14.60%	15.61%
75.00	79.99	1420	15.05%	15.55%	15.00%	15.60%	14.91%	15.69%
80.00	84.99	1929	15.59%	15.93%	15.56%	15.96%	15.49%	16.02%
85.00	89.99	2595	16.18%	16.42%	16.16%	16.45%	16.12%	16.49%

eg: If a Bare Metal object is between 85 to 89.99 degrees celcius then we can be extremely confident that it will be between 16.12% and 16.49% hotter than the TXR coated object. This indicates that the TXR application is supressing the TXR coated metal to a lower temperature.

Tests carried out September to October 2022

The University of Queensland, Verified December 2022

SUPERIOR HEAT TRANSFER | IMPLICATIONS

