

Powder Coated Metals

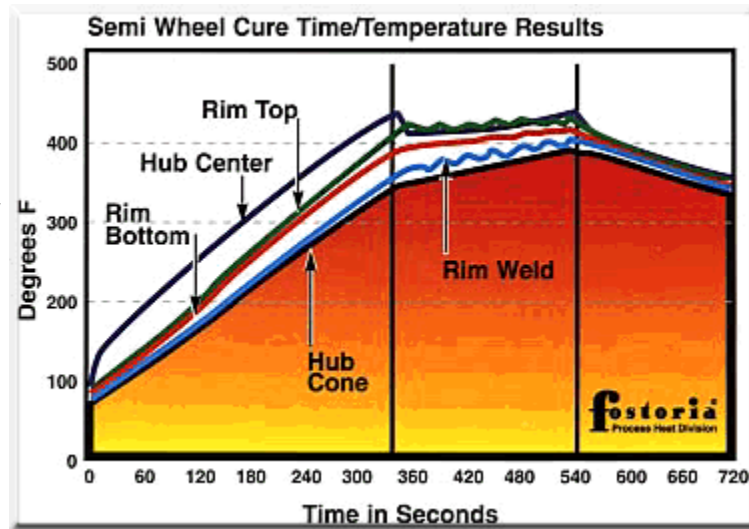


Fostoria has designed and tested and 80kw quartz-lamp infrared oven for a re-manufacturer of semi-truck wheels. The customer switched from a liquid solvent based paint to powder coating due to the demand for a more durable finish on the product.

Fostoria has developed curing processes for powder coatings before. But the cost, cure time and finish quality were only part of the customer's concern. They needed the flexibility to cure many parts in the same oven. So, we designed and tested a "zone controlled" batch oven with the capacity to cure two wheels at a time.

We were not only able to give the customer the versatility they needed, but at the same time, we offered a solution that reduced cure time by 20%

Because the customer has a variety of wheel shapes to cure the "zone control" flexibility of infrared was important. The oven was designed with zone control to redistribute the heat "footprint" and intensity of the heat to match individual products without delaying production.



The additional benefit of this solution is a reduction in paint contamination because of the accelerated curing speed and the absence of air movement, which would be necessary in a convection curing system.