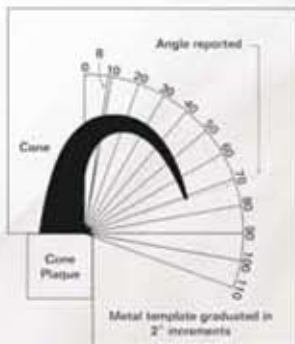


# Pyrometric Cones

Pyrometric cones are a globally recognized visual indicator of heatwork (the effect of time and temperature) achieved during the firing process. Cones provide assurance that the level of heatwork required to develop the critical attributes of ceramic products have been successfully delivered. They not only can be relied on during the firing process but also used as a permanent record of the heatwork produced inside the kiln. Cones should be an integral part of your quality assurance program.



Numerous companies across a broad spectrum of industries routinely utilize Pyrometric cones in their manufacturing process. Global customers include; advanced ceramics, brick, ceramic tile, sanitaryware, abrasives, dinnerware, pottery and investment casting. The one thing all Pyrometric cone customers have in common is that they have a desire to manufacture the highest quality product at the lowest possible price.

Pyrometric cones have two unique advantages; first every batch of cones is standardized so that cones manufactured today will behave the same as cones manufactured in the future. Second, unlike shrinkage devices, Pyrometric cones are designed to cover a very small temperature range (usually 15-30 degrees C). The fact that they are standardized and cover a narrow temperature range, make them ideal to monitor standard thermal processes. Orton Pyrometric cones are written into the standard operating procedures of world class manufacturers around the globe.

Since cones can be placed within the ware setting, they allow the operator to measure the uniformity of heatwork delivered through out the cross section of the ware. So whether it is the final fired dimension, product color, absorption or degree of vitrification, cones provide the assurance that the required level of heatwork was delivered to develop the critical attributes of your product without additional testing. Maintaining a consistent firing process is imperative to maintaining a high quality, consistent product.

By retaining the fired cones, a visual history of the effectiveness of your firing process can easily be maintained to alert the operator if small changes occur in the process. The thermocouples within your kiln report and control the temperature surrounding the ware but may not sense a change in uniformity of heatwork delivery within the ware setting. For example a defective burner can be compensated for by the controller to maintain the set point but not indicate a cold spot within the ware setting.

Monitoring your kilns performance is essential to producing a quality, world class product. Pyrometric cones tell the story, at a glance



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