

ANCHOR WELDING

CRITICAL WELDING OF SS ANCHORS IN KILN,
PRE-HEATER AND COOLER AREA

AREA OF CONCERN

Kiln is a freely floating tube made out of boiler quality steel plate lined with refractory bricks used in the pyro-processing (Klinkerisation) stage of manufacture of cement. The temperature varies from 600°C to 1300°C. Inside the kiln is lined with refractory castables, these refractory castables are anchored to kiln plates by using SS 310 grade anchors. This anchor needs to be joined with kiln shell-this acts as a re-enforcement to hold the castables together. Further, these anchors are used in pre-heater/kiln burner nozzle area where castables are used as well. If the anchor welding fails the castables also fall and that particular portion gets heated up and in due course, it forms red spot & cracks. So it's extremely critical that anchor welding requires utmost reliability.



SOLUTION

So after replacement or repair in kiln shell or pre-heater, SS 310 anchors are welded on to the kiln shell inner portion, the best solution for this welding is LH 126 our unique alloy ideal for joining SS to any type of steel, in this case, joining of SS 310 with boiler quality steel. Also, this specially formulated Ni-Cr alloy is the most ideal alloy for continuous high temperature working up to 1200OC approx. with very high tensile strength & elongation giving highest reliability in this application.

APPLICATIONS

For Anchor welding applications in cement plants and DRI-steel plants

SOME OF OUR END USERS

- Associated Cement Companies Ltd.
- Ambuja Cement Ltd
- Emami Cement Limited
- India Cements Limited
- The Ramco Cements Limited
- UltraTech Cement Limited