METI-ASEAN PROMEEC

Kyankhin Cement Plant <Comments for EE&C>

- Relation between the brick thickness and shell surface temperature

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Temperature Profile in Wet Process Kiln



Measurement of No.3 Kiln Surface Temperature







The heat conduction in a cylindrical walls expressed by the following formula, and the heat values through the respective layers are equal.

$$Q = \frac{2 (t1 - t3)}{\frac{1}{1} LN \frac{r2}{r1} + \frac{1}{2} LN \frac{r3}{r2}}$$

$$\frac{r1, r2, r3: (m)}{r1, r2, r3: (m)}$$

$$\frac{r1, r2, r3: (m)}{r1, r2, r3: (m)}$$

$$\frac{r1, r2, r3: (m)}{r1, r2, r3: (m)}$$



Relation between the brick thickness and shell surface temp. (2/2)





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$$Q = \frac{2 (t1 - t3)}{\frac{1}{1} LN (\frac{r^2}{r1}) + \frac{1}{2} LN(\frac{r^3}{r2})}$$