$$Bi' = \frac{k}{hL} = \frac{2.5}{525 \times 0.025} = 16.38$$

$$\alpha = \frac{k}{\ell c} = 8.84 \times 10^{-5} \text{ m}^{2}/\text{s}$$

$$F_{o} = \frac{x t}{L^{2}} = \frac{8.84 \times 10^{5} \times 60}{(0.025)^{2}} = 8.48$$

$$\chi^{*} = \frac{2}{L} = \frac{(.25)}{2.5} = 0.5$$
From Heisler chart
$$F_{ig} = 5.8.1 \quad \text{with} \quad \begin{cases} F_{o} = 8.48 \\ F_{o} = 16.38 \end{cases} \Rightarrow \begin{cases} F_{o} = \frac{10}{L} - \frac{10}{L} = 0.61 \\ F_{o} = 0.61 \text{ fi} = 0.61 (T_{i} - T_{id}) = 0.61 (200 - 70) = 79.3 \text{ c} \end{cases}$$

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$$\theta_{o} = 0.76 \text{ fi} = 0.$$