$$\frac{\Delta c_x}{c_{x_0}} = \overbrace{\frac{\Delta c}{c_0}}^{=0} + \frac{\Delta(M+\mathcal{M})}{(M+\mathcal{M})_0} + \frac{\Delta(T_F - T_1)}{(T_F - T_1)_0} + \frac{\Delta m_X}{m_{X_0}} + \frac{\Delta(T_2 - T_F)}{(T_2 - T_F)_0}$$

$$\Delta c_x = \left[\frac{\Delta(M+\mathcal{M})}{(M+\mathcal{M})_0} + \left(\frac{\Delta(T_F - T_1)}{(T_F - T_1)_0} + \frac{\Delta m_X}{m_{X_0}} + \frac{\Delta(T_2 - T_F)}{(T_2 - T_F)_0} \right) \right] c_{x_0}$$

$\Delta M + \Delta \mathcal{M} \quad \Delta T_F + \Delta T_1 \quad \Delta T_2 + \Delta T_F$

$\dfrac{82}{11 kg}$