

A method for preparing sapphire windows involves serial annealing in saturated vapors of aluminium oxide, and thereafter in carbon gaseous medium. Annealed are in saturated vapors of aluminium oxide samples of thickness of

$L = 1.67 \cdot 10^{-1}$ at the temperature of 1800 - 2030°C during the period of time of: $\tau_1 \geq \tau_0 + L^2 \cdot A \cdot \exp(B/T)$, and thereafter in carbon gaseous medium at the temperature of 1880 - 1930°C during the period of time of: $\tau_2 = 0.02 \cdot L^2 / D_{L_{\min}} \cdot [1 + k \cdot (L - L_{\min})]$, and thereafter annealed samples are mechanically treated removing uniformly from all the parts the layer to a necessary thickness of the finished article.