$$v_{\alpha}^{0}(t)$$

$$v_{\alpha}^{0}(t) = \left[1 - \frac{v_{\alpha}^{\max}}{v_{\alpha}^{0}(0)}\right] \overline{v_{\alpha}}(t) + v_{\alpha}^{\max}$$

$$\overline{V_{\alpha}}(t) = v_{\alpha}^{\max} \frac{v_{\alpha}^{0}(0)}{v_{\alpha}^{\max} - v_{\alpha}^{0}(0)}$$