$$\sigma_\rho = 8{,}466 \cdot 10^{-3} \cdot \sqrt{\left(\frac{0{,}01}{40{,}52}\right)^2 + \left(2 \cdot \frac{9{,}77 \cdot 10^{-3}}{16{,}37}\right)^2 + \left(\frac{2{,}784 \cdot 10^{-3}}{22{,}91}\right)^2}$$

$$\sigma_\rho = 8{,}466 \cdot 10^{-3} \cdot \sqrt{1{,}506 \cdot 10^{-6}}$$

$$\sigma_\rho = 8{,}466 \cdot 10^{-3} \cdot 1{,}227 \cdot 10^{-6}$$

$$\sigma_\rho \approx 1{,}038 \cdot 10^{-8} \ g/mm^3 \ //$$

→ Notação final para a Densidade

$$\rho = \bar{\rho} \pm \sigma_\rho$$

$$\rho = \bar{\rho} + \sigma_\rho$$

$$\rho = 0{,}00546 + 1{,}038 \cdot 10^{-8}$$

$$\rho = 8{,}480 \cdot 10^{-3} = 0{,}00546 \ g/mm^3 \ //$$

$$\rho = \bar{\rho} - \sigma_\rho$$

$$\rho = 0{,}00546 - 1{,}038 \cdot 10^{-8}$$

$$\rho = 8{,}459 \cdot 10^{-3} \approx 0{,}00546 \ g/mm^3 \ //$$

$$\rho = 0{,}00546 \pm 1{,}038 \cdot 10^{-8} \ //$$

$$(8{,}47 \pm 0{,}06) \cdot 10^{-3}$$

→ Erro Relativo $\quad E\% = \dfrac{x_m - x_v}{x_v} \cdot 100$ (Exatidão)

$$E\% = \frac{8{,}466 - 8{,}40}{8{,}40} \cdot 100$$

$$E\% = 0{,}785\ \%$$

→ Incerteza Experimental Relativa (Precisão)

$$E_{exp} = \frac{\sigma_G}{\bar{G}} \cdot 100$$

$$E_{exp} = \frac{1{,}038 \cdot 10^{-8}}{8{,}466 \cdot 10^{-3}} \cdot 100$$

$$E_{exp} = 0{,}000\,1226\ \%$$