

The Drag Equation

$$D = C_d \times A \times \rho \times \frac{V^2}{2}$$

$$D = k \times V^2$$

$$D = \text{Drag (Newton)}$$

$$C_d \cong 0,48 \text{ (Drag Coefficient for Rough Sphere)}$$

$$\rho = \text{density for the air (kg/meter}^3\text{)}$$

$$A = \text{Referance area (meter}^2\text{)}$$

$$V = \text{Velocity(meter/second)}$$

$$C_d = 0,48$$

$$A = 0,0044178646640625\text{m}^2$$

$$\rho = 1,15923\text{kg/m}^3$$

$$g = 9,80665\text{m/s}^2$$

$$m = 0,145\text{kg}$$

$$k = 0,00122911710108508125$$

Afyonkarahisar air density = <https://www.omnicalculator.com/physics/air-density?c=TRY&v=aaa:1.000000000000000,P:1008!mb,RH:17!perc,Temp:29!C>