

$$\text{MgZn} \rightarrow 89.7 \text{ g/mol}$$

$$\text{Mg} \rightarrow 1.738 \text{ g/cm}^3$$

$$\text{Zn} \rightarrow 7.133 \text{ g/cm}^3$$

$$4.436 \text{ g/cm}^3$$

$$0.049448 \frac{\text{mol}}{\text{cm}^3}$$

$$(1 \text{ mm}^3)$$

$$\rightarrow 4.9448 \times 10^{-5} \text{ mol} \rightarrow 6.2533 \times 10^{20} e$$

\Rightarrow @ a 5% magnon level

$$n = 3.126 \times 10^{19}$$

$$\Rightarrow (1.6565 \times 10^{-26}) (3.126 \times 10^{19})$$

$$= 5.179 \times 10^{-7} \text{ N}$$

$$\approx \boxed{5 \times 10^{-7} \text{ N}}$$