## Answer on Question #73789 – Chemistry – General Chemistry

## Task:

Mixture consists of 17.5 g of salt, 13.5 g of silicon dioxide, and 2.6 g of aluminum carbonate. Determine the percentage of salt in the mixture.

## **Solution:**

$$m(SiO_2) = 13.5 g;$$

$$m(Al_2(CO_3)_3) = 2.6 g.$$

$$m(all) = m(salt) + m(SiO_2) + m(Al_2(CO_3)_3);$$

$$m(all) = 17.5 + 13.5 + 2.6 = 33.6 g.$$

$$w(salt) = \frac{m(salt)}{m(all)} = \frac{17.5}{33.6} = 0.5208 \text{ or } 52.08\%$$

Answer: 52.08% of salt.

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