

Experiment 10

Advance Study Assignment: Analysis of an Aluminum-Zinc Alloy

- On the following page, construct a graph of N_{H_2} vs. % Al. To do this, refer to Equation 11 and the discussion preceding it. Note that a plot of N_{H_2} vs. % Al should be a straight line (why?). To fix the position of a straight line, it is necessary to locate only two points. The most obvious way to do this is to find N_{H_2} when % Al = 0 and when % Al = 100. If you wish you may calculate some intermediate points (for example, N_{H_2} when % Al = 50, or 20, or 70); all these points should lie on the same straight line. To use a spreadsheet, set up Equation 11 for different Al percentages. Graph N_{H_2} vs. % Al.
- A student obtained the following data in this experiment. Fill in the blanks in the data and make the indicated calculations:

Mass of gelatin capsule	0.1134 g	Ambient temperature, t	23°C
Mass of capsule plus alloy sample	0.3218 g	Ambient temperature, T	_____ K
Mass of alloy sample, m	_____ g	Atmospheric pressure	732 mm Hg
Mass of empty beaker	154.3 g	Vapor pressure of H_2O at t (Appendix D)	_____ mm Hg
Mass of beaker plus displaced water	401.6 g		
Mass of displaced water	_____ g	Pressure of dry H_2 , P_{H_2} (Eq. 7)	_____ mm Hg
Volume of displaced water (density = 1.00 g/mL)	_____ mL	Pressure of dry H_2	_____ atm
Volume, V , of H_2 = Volume of displaced water	_____ mL		_____ L

Find the number of moles of H_2 evolved, n_{H_2} (Eq. 5; V in liters, P_{H_2} in atm, T in K, $R = 0.0821$ liter-atm/mole K).

_____ moles H_2

Find, N_{H_2} , the number of moles of H_2 per gram of sample (n_{H_2}/m).

_____ moles H_2/g

Find the % Al in the sample from the graph prepared for Problem 1.

_____ % Al

Find the % Al in the sample by using Equation 11.

_____ % Al006C

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web in this project lead the way pltw course students explore the engineering profession and the fundamental aspects of engineering problem solving students study the historical and current impacts of engineering on society including ethical implications