

task_4pla882qt21jfyc9_with_calculation

Student Group

First Name	Surname	Matrikel Nr.

Table of Contents

Exercise E3 Charges in Electroplating	2
---	---

charges, Electroplating, chapter1 2

Exercise E3 Charges in Electroplating

To get a different metal coating onto a surface, often [Electroplating](#) is used. In this process, the surface is located in a liquid, which contains metal ions of the coating.

In the following, a copper coating (e.g. for corrosion resistance) shall be looked on. The charge of one copper ion is around $1.6022 \cdot 10^{-19} \text{ C}$, what is the charge on the surface if there are $8 \cdot 10^{22}$ ions added?

$$\begin{aligned} & 12'818 \text{ C} \end{aligned}$$

Solution

$$\begin{aligned} & 8 \cdot 10^{22} \cdot 1.6022 \cdot 10^{-19} \text{ C} = 12'817.6 \text{ C} \end{aligned}$$

From:

<https://first.mexle.te.hs-heilbronn.de/> - MEXLE Wiki

Permanent link:

https://first.mexle.te.hs-heilbronn.de/ee1/task_4pla882qt21jfyc9_with_calculation

Last update: **2023/04/03 11:24**

