

*Title:* **Design of an instant cooler based on endothermic dissolution applied to a beer can.**

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*Date:* June 2018

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This work has a main part that includes the calculations and the design of a can that can be cooled anywhere in a few minutes. To proceed to calculations, there is a previous theory introduction about the physical and chemist heat transmission principles. Finally, we study the materials and a brief costs study. The solution I found to cool a beer's can consists in a inner cooling coil and a cap. The cap keeps the components of the solution we will use to cool down the can isolated. Once we put the components in contact, we let the solution flow down the cooling coil. It's an ambitious project as there is a few information to start up and it has been necessary to combine a multitude of possibilities without any helping guideline to reach the goal. The solution presented is valid but there is a large margin to improve if we had more resources and time.