

Application No. 811: Model of salt molecules

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Molecules, held together by disk magnets

I am a student at the secondary school Graf-Münster-Gymnasium Bayreuth. I needed disk magnets of different strengths and sizes for the practical part of my seminar work in chemistry, for which I built a chemical model.

My model was built for educational purposes for 8th and 9th graders to visualise the electron transfer during the creation of salt. Principle: Electrons (depicted as styrofoam spheres) adhere magnetically to atomic cores (plexiglass spheres that contain the atom components). When two atoms touch, the electrons transfer to the other atom, hence the magnets with different strengths.



Table salt NaCl, front

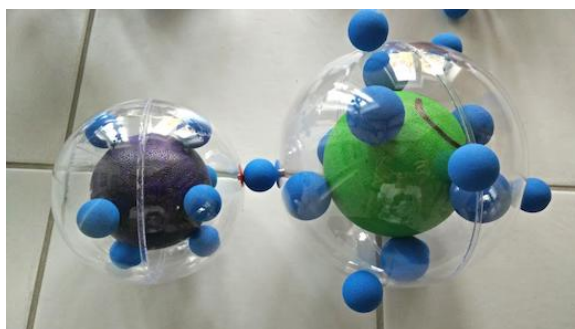


Table salt NaCl, back



Aluminium oxide Al₂O₃



Aluminium bromide AlBr₃

Articles used

S-06-03-N: Disc magnet Ø 6 mm, height 3 mm (www.supermagnete.fr/eng/S-06-03-N)

S-06-04-N: Disc magnet Ø 6 mm, height 4 mm (www.supermagnete.fr/eng/S-06-04-N)

S-08-03-N: Disc magnet Ø 8 mm, height 3 mm (www.supermagnete.fr/eng/S-08-03-N)

S-08-04-N: Disc magnet Ø 8 mm, height 4 mm (www.supermagnete.fr/eng/S-08-04-N)

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