

K&W

FLOATING COVER BALLS

**Not just a plastic ball but a
solution to a problem.**

WHY FLOATING COVER BALLS?

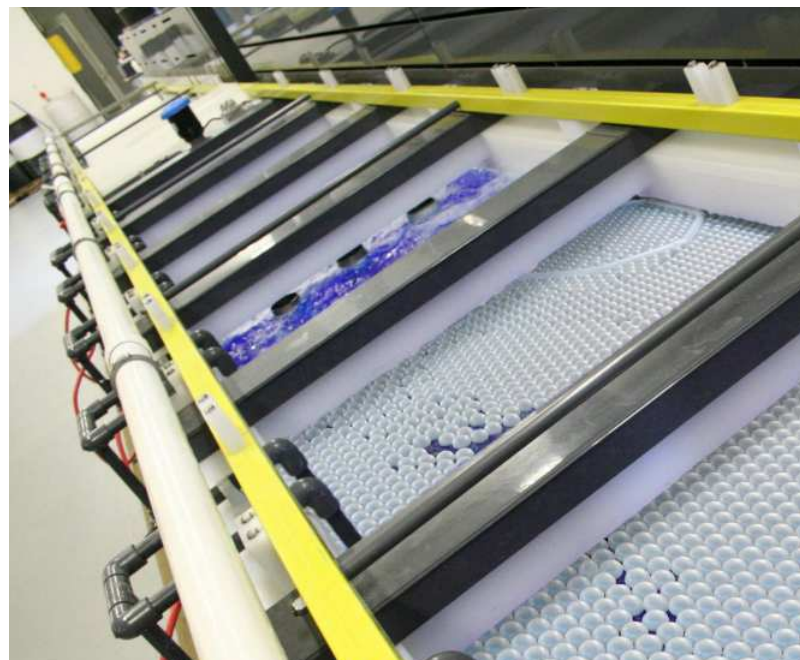
Our **FLOATING COVER BALLS** provide highly effective solutions to difficult liquid storage problems throughout the Processing, Petrochemical and Metal Treatment industries.

By placing hollow plastic balls onto the surface of a liquid, they arrange themselves into a close packed formation covering over 91 % of the surface area. This provides an extremely effective barrier significantly reducing the mass and heat transfer mechanisms operating between the liquid and surrounding environment. A thermal insulation barrier is achieved through the air held in each ball and the poor heat conductivity of plastic. The air pockets between the balls, although not sealed, also contribute to this cellular insulation system which dramatically reduces heat loss.

The low liquid surface area exposed to atmosphere dramatically reduces liquid loss through evaporation, odour release and conversely prevents surface absorption of oxygen.

	Consumption rate/h	Evaporation rate/h
Open Tank	10.73 kW/h	13 litres /m ²
With 1 layer balls	2.7 kW/h	1.67 litres/m ²
With 2 layer balls	2.04 kW/h	1.28 litres/m ²
1 layer saves	75 % heat	87.2 % liquid
2 layer saves	81 % heat	90.1 % liquid

A blanket made of **FLOATING COVER BALLS** is not an obstacle to products or items that need to be moved through the liquid surface; the balls are pushed to the side, but quickly form their cover when the items are lifted out of the tank. The balls rise with the liquid level in the storage tanks providing a constant cover over the liquids.

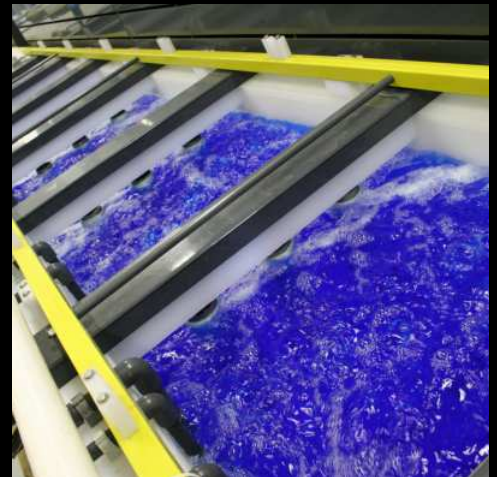


ADVANTAGES OF FLOATING COVER BALLS



1. **surface is covered up to approx. 91 %**
2. **easy to install, maintenance-free**
3. **spherical layer isolates the liquid from the environment and thus reduces the interaction between them**
4. **reduction of heating costs by up to approx. 70 % - insulating effect**
5. **lowers the freezing point by up to - 10 °C**
6. **reduction of evaporation by up to 90 %**
7. **reduction of chemical consumption**
8. **improved working conditions - no syringes of hot or corrosive liquids**
9. **less damage to buildings and equipment due to reduction of corrosive vapors**
10. **reduced utilization of air handling equipment, savings in heating costs and cost of exhaust air treatment**
11. **reduction of odors - odors do not easily enter the atmosphere**
12. **movement of equipment through the liquid is still possible (immersion baths)**
13. **reduction of intrusion of UV rays (prevents algae growth)**
14. **reduction of oxygen entry / oxidation**
15. **reduction of acid mists in ponds of electrolysis plants and thereby protection of water birds**
16. **lower investment costs and easier handling than fixed covers**

FLOATING COVER BALLS IN ACTION



REQUIRE FURTHER ASSISTANCE OR INFORMATION?

CONTACT

Feel free to reach out to us through phone or e-mail.
We'll respond promptly to address your inquiries.

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