



Electricity plant



Gas plant



Nuclear power plant



Heating plant

FLOATING BALLS FOR POWER PLANTS

ALLPLAS PP 45 mm

ALLPLAS floating balls are used to prevent heat loss from condensate return pools or hot water systems.

Minimization of oxygen uptake

On boiler feed water systems, the oxygen uptake is significantly reduced by the application of ALLPLAS floating balls.

High levels of dissolved oxygen are responsible for corrosion damage in boiler feedwater systems, cooling water tanks and water storage tanks. The problem of oxygen absorption mainly occurs during shutdown periods – covering the water surface with ALLPLAS balls prevents oxygen absorption by the water during the degassing process and the standstill time before commissioning of a main plant.



Operating principle

According to the requirements, the floating balls are applied in two or three layers. Installation costs are eliminated because the balls are simply poured onto the liquid surface, where they arrange themselves into a uniform closed layer. ALLPLAS floating balls cover surfaces by 91% due to their geometric shape - this considerably reduces the oxygen uptake of liquids.

The floating balls are also completely maintenance-free. Only drains should be covered with grids so that the balls cannot enter the piping system. The balls rise and fall with the liquid level, the spherical shape gives the guarantee that they always automatically arrange themselves into an even layer.

✓ Reduce environmental impact

✓ Improve handling significantly

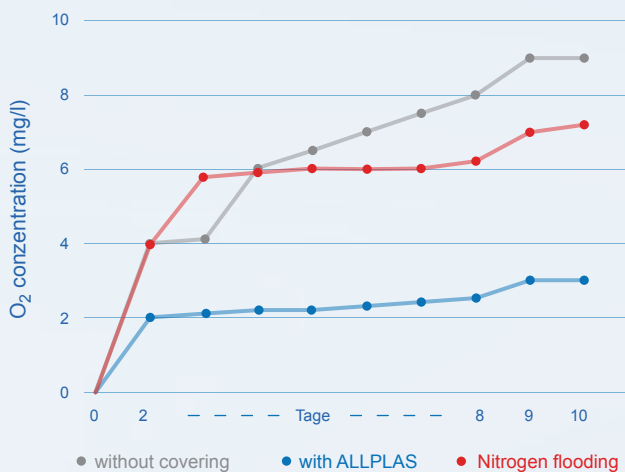
✓ Reduce energy costs

FLOATING BALLS FOR POWER PLANTS

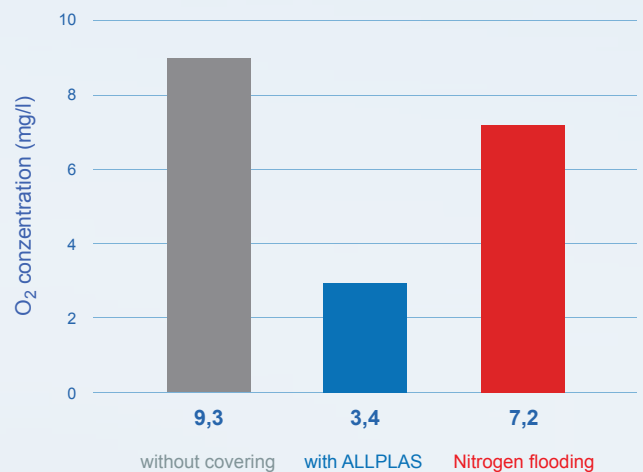
ALLPLAS PP 45 mm

ALLPLAS floating balls are characterized by easy handling, freedom from maintenance, a short payback period and high operational safety compared to the nitrogen flooding.

Reduction of oxygen absorption



Oxygen absorption after 10 days



Scientific research conducted by Bremerhaven University of Applied Sciences showed that the oxygen input of an area covered with ALLPLAS floating balls is reduced by 63% compared to an uncovered area. Compared to nitrogen flooding, oxygen input is reduced by 23%.

This allows considerable cost savings, because the ALLPLAS floating balls are far less expensive to procure than a nitrogen flooding system. Covering surfaces with floating balls is considerably more economical and ecological than nitrogen flooding.

The application of ALLPLAS floating balls in power plants causes:

- the preservation of water quality
- the prevention of corrosion damage due to a significant reduction in oxygen uptake
- considerable energy savings, reduction of energy and temperature loss of open systems
- minimization of evaporation

✓ Reduce environmental impact

✓ Improve handling significantly

✓ Reduce energy costs