

# FROGSPAWN THERMAL INSULATION SPHERES

## Description

### Hollow polymer floating ball blanket

A floating blanket ideal for use on the top of open process tanks. The system consists of hollow polymer spheres which are usually polypropylene, that are floated on the surface of the liquid to provide a continuous insulating layer. Workloads like jigs and components can easily pass through the layer. The system is used extensively by electroplaters, anodisers, steel processors and chemical manufacturers.

The spheres are supplied in PP as standard and other materials such as HDPE, PVDF available on request.

## Key features

- Reduce heat loss from surfaces by up to 75%
- Reduce splashing from the liquid surface
- Save energy
- Create a more pleasant environment
- Reduce corrosive effects of vapour on structure of buildings.
- Reduce replacement liquid cost
- Increase stability of bath temperature
- Reduce vapour loss from surfaces by up to 90%



## Used By

- Steel Strip Manufacturers
- Wire & Tube Manufacturers
- Metal Finishers
- Chemical Plants
- Galvanising Industry
- Aerospace Industry
- Chemical Millers

Frogspawn consist of hollow spheres which are floated on the top of the tanks covering up to 90% of the surface reducing heat loss and vapour losses thereby improving the working environment. Availability in a variety of sizes and resistant to virtually all the solutions used in the industry eg acid, alkalis inorganic and some organic.

**BRAUDE Products will not corrode**

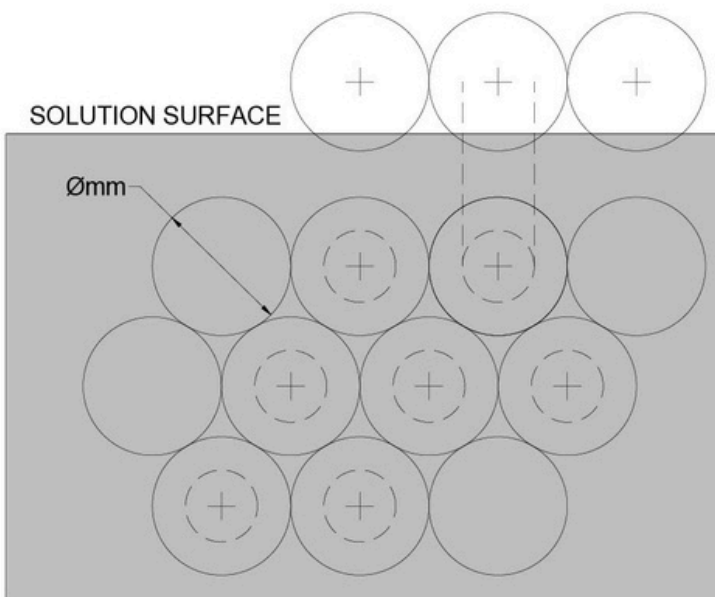
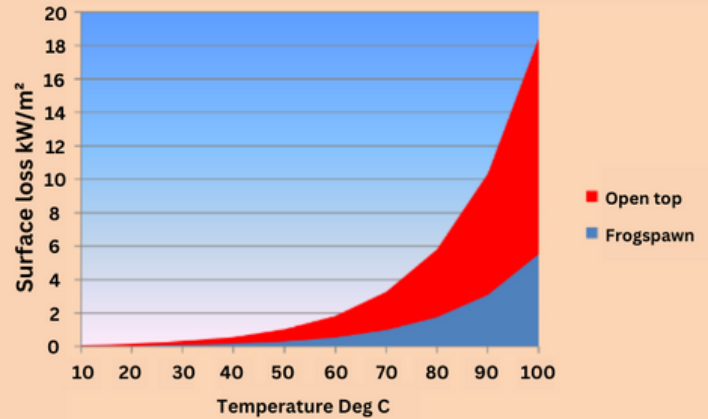
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## TECHNICAL SPECIFICATION

Diameter	Packing Unit	Average weight	Coverage per m <sup>2</sup>
10mm	5000	0.2g	11600
20mm	2000	1.0g	2900
25mm	2000	1.5g	1850
38mm	2000	4.5g	800
45mm	1000	7.0g	570
50mm	1000	8.0g	465
70mm	500	15g	235
100mm	100	32g	116
150mm	50	90g	51.5

## Energy Saving Using Frogspawn

Based on ambient temperature 10°C



## Materials

High Density Polyethylene (HDPE) - suitable for working conditions up to 80°C (176°F). HDPE is recommended for all external applications due to enhanced resistance to freezing conditions.

Polypropylene (PP) - able to withstand continuous working temperatures of up to 110°C (230°F). Suitable for contact with most chemicals used in the metal treatment industry.

PVDF - this material offers significant increases in operating temperatures up to 160°C (320°F) providing resistance to many aggressive chemicals where alternative plastics would fail.

Ultra Violet (UV) - stabilising additives prevent the degrading effects of sunlight. HDPE is also recommended for demineralised water and Chromic acid applications.

**Used extensively in metal finishing and allied industries**