

FLotation SOLUTIONS

Flotation solutions		Specific gravity (s.g.)
FS 2	Saturated Sodium Chloride	1.200
FS 3	Zinc Sulphate 1.200	1.200
FS 7	Zinc Sulphate 1.350	1.350

FS 2 - Saturated Sodium Chloride (NaCl, s.g. - 1.200)

- 1 - Combine 1000 ml of warm water and about 500 grams of salt until no more salt goes into solution and the excess settles on the bottom of the container.
- 2 - Dissolve the salt in the water by stirring on a magnetic stirrer.
- 3 - To ensure that the solution is fully saturated, it should be allowed to stand overnight at room temperature. If the remaining salt crystals dissolve overnight, more can be added to ensure that the solution is saturated.
- 4 - Check the s.g. with a hydrometer, recognizing that the s.g. of saturated solution will vary slightly with environmental temperature.

FS 3 - Zinc Sulphate (ZnSO₄·7H₂O, s.g. - 1.200)

- 1 - Combine 500 ml of water and 330 grams of zinc sulphate.
- 2 - Dissolve the zinc sulphate in the water by stirring on a magnetic stirrer.
- 3 - Add water to reach a final volume of 1000 ml.
- 4 - Check the s.g. with a hydrometer.

FS 7 - Zinc Sulphate (ZnSO₄·7H₂O, s.g. - 1.350)

- 1 - Combine 685 ml of water and 685 grams of zinc sulphate.
- 2 - Dissolve the zinc sulphate in the water by stirring on a magnetic stirrer.
- 3 - Check the s.g. with a hydrometer.