1.0 Purpose

The purpose of this procedure is to determine the bulk density of crystalline salt samples.

2.0 Scope

This procedure applies to all crystalline salt. A Bulk Density check will be performed by lab personnel twice daily and at a customer's request.

3.0 Responsibility

QA Lab personnel are responsible for performing this procedure.

4.0 Safety Considerations

Wear the appropriate PPE when working in the Lab.

Safety is a condition of employment. Employees are not authorized to work in an unsafe manner and are prohibited from harming the environment of the facility or community.

5.0 Materials/Equipment

- 100-ml volumetric flask
- Funnel
- Small spatula
- Weighing Balance

6.0 Procedure

1. A 100-ml volumetric flask is placed on the balance and tared to zero.
2. The flask is filled with the crystalline salt sample until the level reaches the etched line.
3. The cylinder is placed back on the balance and weight is recorded on *Bulk Density for Crystalline Salt (L12-PR-100-F023).*
4. The bulk density can be determined by using the following calculation

weight of salt sample (g) ⁄ Volume of salt sample (ml) = bulk density (g/ml)

g ⁄ ml x 62.4 = lb. ⁄ ft^3

5. The bulk density in g/mL and lb/ft^3 are recorded on *Bulk Density for Crystalline Salt (L12-PR-100-F023).*
6. Completed *Bulk Density for Crystalline Salt (L12-PR-100-F023*) forms are filed in Quality Lab.

7.0 Reference Documents

Bulk Density for Crystalline Salt (L12-PR-100-F023)

8.0 Change Information

Updated using *SOP Template Instructions (Q12-PR-100-004)* and *Document Numbering (Q12-PR-100-003)*