
	GILES CHEMICAL ~ PREMIER MAGNESIA		
	Company Procedure		
	Title: Production Yield Calculation	Number: P16-PR-100-096	
	Owner: Jason Bumgarner	Revision: 02	
	Effective Date: 01/05/16	Page: 1 of 1	

1.0 Purpose

This procedure defines the calculation of a raw material production yield

2.0 Scope

This procedure covers the Manufacturing Operation's calculation of raw material used per ton of finished product.

3.0 Responsibility

Manufacturing Management and / or Material Control Coordinator

4.0 Safety Considerations

All safety glasses and appropriate safety apparel is to be worn at all times.

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

N/A

6.0 Procedure

1. Raw Material yield Calculation

- a. Daily Production is recorded in tons per day. A log of this production is kept
- b. Both Sulfuric Acid and Magnesium Oxide (MgO) are offloaded by car.
- c. The car numbers, weights and dates of each car offload is logged.
- d. Acid and MgO storage silos are measured daily
- e. At any given time a calculation can be performed to find the production yield using the following formula
 - $T = \text{Total production (in tons) between specified times}$
 - $W = \text{Total weight (in tons) of material offloaded between specified times}$
 - Use separate calculations for MgO and Acid
 - $X = \text{Difference between beginning storage inventory and ending storage inventory (in tons)}$
 - Use separate calculations for MgO and Acid

$$T / (W+X) = \text{Raw Material yield for specified time}$$

7.0 Reference Documents

N/A

8.0 Change Information

New document.

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