
	GILES CHEMICAL ~ PREMIER MAGNESIA		
	Company Procedure		
	Title: Quality Approval of Incoming Raw Materials	Number: Q12-PR-100-015	
	Owner: Ashley Williams	Revision: 0	
	Effective Date: 03/13/13	Page: 1 of 3	

1.0 Purpose

This procedure describes the steps necessary for granting Quality approval for incoming raw materials.

2.0 Scope

This procedure applies to all incoming raw materials used at Manufacturing.

3.0 Responsibility

Quality Associate is responsible for this procedure.

4.0 Safety Considerations

Wear 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 the community.

5.0 Materials/Equipment

N/A

6.0 Procedure

6.1 Open daily the Raw Material Inventory spreadsheet at N:\EngineerOps\RXR & Raw Material\Raw Material.

6.2 Identify railcars in which COA's are available.



6.3 Review COA's for identified railcars:

6.3.1 For Sulfuric Acid COA's go to N:\EngineerOps\RXR & Raw Material\Raw Material\Acid Paper Work

6.3.2 For MgO COA's go to N:\EngineerOps\RXR & Raw Material\Raw Material\MgO Paper Work

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6.4 Record information on the following forms:

6.4.1 For Sulfuric Acid use *Quality Approval of Incoming Raw Materials – Acid (Q12-PR-100-F015b)*.

6.4.2 For MgO use *Quality Approval of Incoming Raw Materials – MgO (Q12-PR-100-F015a)*.

6.5 Check to see if railcar is within control limits and specifications.

6.5.1 Control Limits for Sulfuric Acid are as follows

- Strength (H₂SO₄ %) Lower Control Limit is 92.00%
- Clarity @ 500NM Lower Control Limit is 80.00%
- Chlorides Upper Control Limit is 10 ppm
- Color Upper Control Limit is 40.00
- Iron Upper Control Limit is 7.50 ppm

6.5.2 Specification Limits for Sulfuric Acid are as follows



- H₂SO₄ Lower Specification Limit is 93.20%
- Upper Specification Limit is 95.00%
- Clarity @ 500NM Lower Specification Limit is 80.00%
- Chlorides Lower Specification Limit is 0 ppm Upper Specification Limit is 10 ppm
- Color Upper Specification Limit is 50.00
- Iron Upper Specification Limit is 50 ppm

6.5.3 Control Limits for MgO are as follows

- -200 mesh Lower Control Limit is 56.00% Upper Control Limit is 87.00%

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- CaO Upper Control Limit is 4.00%
- Insoluble Lower Control Limit is 1.60% Upper Control Limit is 2.50%
- LOI Upper Control Limit is 5.00%
- MgO Lower Control Limit is 92.50%
- R₂O₃ Upper Control Limit is 1.20%
- Sulfur Upper Control Limit is 0.50%
- Bulk Density Lower Control Limit is 57lbs/cu ft Upper Control Limit is 73lbs/cu ft
- Reactivity Upper Control Limit is 31 degrees

6.6 If any railcar is out of specification limits, it is automatically rejected.

6.7 If any railcar is out of control limits it is reported to the Process Engineer, who will determine further action.

7.0 Reference Documents

Quality Approval of Incoming Raw Materials – MgO (Q12-PR-100-F015a)
Quality Approval of Incoming Raw Materials – Acid (Q12-PR-100-F015b)

8.0 Change Information

New Document

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