



# Glass Manufacturing BOM Composition Checklist

## Raw Material Specifications

Verify adherence to defined specifications for each raw material used in glass manufacturing.

### Silica (SiO<sub>2</sub>) Percentage

### Soda Ash (Na<sub>2</sub>CO<sub>3</sub>) Percentage

### Limestone (CaCO<sub>3</sub>) Percentage

### Alumina (Al<sub>2</sub>O<sub>3</sub>) Percentage

### Batch Size (kg)

- ☐ 100
- ☐ 500
- ☐ 1000
- ☐ 2000

### Additional Specifications

Write something...

### Specification Issue Date

Enter date...

## Supplier Certification

Confirm supplier certifications for material quality and compliance.

### Certification Type

- ☐ ISO 9001
- ☐ ISO 14001
- ☐ Supplier Audit Report
- ☐ Other (Specify)

### Certification Document

 Upload File

### Certification Number

Enter a number...

### Certification Issue Date

Enter date...

### Certification Expiration Date

Enter date...

### Supplier Comments/Notes

Write something...

## Batch Analysis & Testing

Document results of batch testing for chemical composition and purity.

### SiO<sub>2</sub> Content (%)

Enter a number...

### Al<sub>2</sub>O<sub>3</sub> Content (%)

Enter a number...

**CaO Content (%)**

Enter a number...

**Na<sub>2</sub>O Content (%)**

Enter a number...

**MgO Content (%)**

Enter a number...

**Fe<sub>2</sub>O<sub>3</sub> Content (ppm)**

Enter a number...

**Analysis Date**

Enter date...

**Analysis Time**

**Analysis Notes**

Write something...

**Composition Variance Monitoring**

Track and analyze variations from target composition ranges.

**Silicon Dioxide (SiO2) Variance (%)**

Enter a number...

**Sodium Oxide (Na2O) Variance (%)**

Enter a number...

**Calcium Oxide (CaO) Variance (%)**

Enter a number...

**Magnesium Oxide (MgO) Variance (%)**

Enter a number...

**Variance Date**

Enter date...

**Variance Category (e.g., Raw Material, Process)**

- ☐ Raw Material
- ☐ Process
- ☐ Equipment

**Root Cause Analysis (Brief)**

Write something...

### Corrective Actions Taken

Write something...

## Regulatory Compliance

Ensure compliance with relevant environmental and safety regulations regarding material composition.

### Applicable Regulations

- ☐ REACH
- ☐ RoHS
- ☐ FDA (if applicable)
- ☐ Local Environmental Regulations

### Maximum Permitted Content (e.g., Lead)

Enter a number...

### Last Compliance Review Date

Enter date...

### Compliance Notes/Comments

Write something...

## Compliance Documentation

 Upload File

# Traceability Records

Maintain records linking material composition to specific production batches.

### Batch Production Date

Enter date...

### Batch Number

Enter a number...

### Supplier

☐ Supplier A

☐ Supplier B

☐ Supplier C

### Material Lot Number (Supplier)

Enter a number...

### Notes on Material Origin/History

Write something...

## Supplier Certificate of Analysis

 Upload File

### Quantity Received (kg)

Enter a number...

### Material Grade

- ☐ Grade 1
- ☐ Grade 2
- ☐ Grade 3

## Substitution Approvals

Document and approve any substitutions made to raw materials.

### Substitution Request Date

Enter date...

### Reason for Substitution

Write something...



**Original Material**

- ☐ Material A
- ☐ Material B
- ☐ Material C

**Replacement Material**

- ☐ Material X
- ☐ Material Y
- ☐ Material Z


**Percentage Change in Composition**

Enter a number...

**Impact Assessment**

Write something...

**Supporting Documentation**

 Upload File


**Requestor Signature**

**Approver Signature**

# Material Safety Data Sheets (MSDS)

Verify availability and accuracy of MSDS for each material.

## MSDS File for Material 1

 Upload File

## MSDS Version (Material 1)

- ☐ Version 1
- ☐ Version 2
- ☐ Latest Version

## MSDS Review Date (Material 1)

Enter date...

## Review Notes (Material 1)

Write something...

## MSDS File for Material 2

 Upload File

### MSDS Expiration Date (Material 2)

- ☐ Not Applicable
- ☐ Within 6 Months
- ☐ Within 1 Year
- ☐ Beyond 1 Year

## Recycled Content Verification

Confirm the percentage and origin of any recycled content used.

### Percentage of Recycled Content

### Recycled Material Type

- ☐ Post-Consumer
- ☐ Pre-Consumer
- ☐ Mixed

### Source Documentation Description

### Supporting Documentation (Certificates, Test Reports)

 Upload File

### Recycled Content Certification Standard

- ☐ LEED
- ☐ ISO 14001
- ☐ Other

### Notes on Recycled Content Origin

Write something...

## Contaminant Analysis

Check for and document any detected contaminants in raw materials.

### Contaminant Level (ppm)

Enter a number...

### Contaminant Type

- ☐ Heavy Metals
- ☐ Organic Solvents
- ☐ Inorganic Salts
- ☐ Other (Specify)

### Description of Contaminant Found

Write something...

**Analysis Method**

- ☐ ICP-MS
- ☐ GC-MS
- ☐ Other (Specify)

**Notes/Comments on Analysis**

Write something...

**Analysis Date**

Enter date...