

# Glass Cullet Data Sheet



## 1. Purpose

These specifications include the key areas to achieve best practices in glass cullet recycling:

- Chemical composition
- Sizing
- Color
- Moisture content
- Contaminants

## 2. Container

Bottle-to-bottle recycling is the most efficient and effective use of recycled container glass. Other applications are available, such as aggregate and construction materials. The following items are included in the glass container:

- Flint (clear), green, amber, or brown bottles, including wine, beer, juice, soft drink, and sauce bottles.
- Hotel Restaurant Café (HoReCa)

## 3. Chemical composition

- Silicon dioxide, SiO<sub>2</sub> – 70 %
- Sodium oxide, Na<sub>2</sub>O – 15 %
- Calcium oxide, CaO – 9 %
- Various small chemical compounds – 6 %

## 4. Color purity

Color Purity	
Flint	99 %
Amber	85 %
Green	70 %

Flint

- Purity of 99 %, of which 1 % may be other light colors.

Amber

- Minimum amber glass 85 %.
- Maximum glass of other colors 15 %. May be a dark green or dark blue.

Green

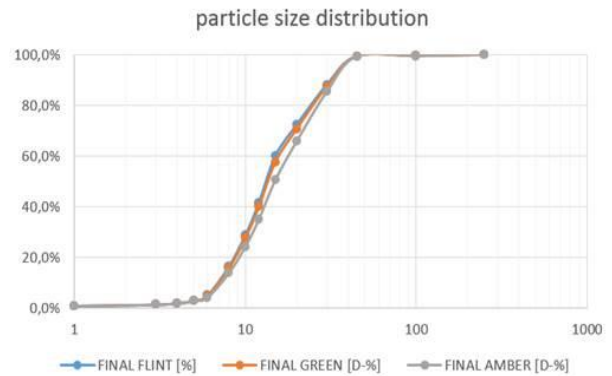
- Minimum green glass 70 %.
- Maximum glass of other colors 30 %. May be dark & pale blue.
- **Note:** Can enhance for a higher purity as 70 % is an initial process.



## 5. Sieve analysis

Sieve Analysis	
< 70 mm	100 %
< 3.15 mm	< 5 %

- Final product ranges from 3.15 - 45 mm, maximum target limit is < 70 mm
- Fine fraction of max. 5 % in <3.15 mm



## 6. Moisture content

Moisture Percentage	
Moisture	≤ 1 %

- The moisture content in processed cullet is less than or equal to 1%.

## 7. Contaminants

CSP Contamination	
Flint	25 g/t
Amber	25 g/t
Green	50 g/t

- Flint CSP content is or 25 grams/ton or 25 ppm
- Amber CSP content is or 25 grams/ton or 25 ppm
- Green CSP content is or 50 grams/ton or 50 ppm

Other Contamination	
Ferrous metal	2 g/t
Non-ferrous metal	3 g/t
Organic materials	< 300 g/t
Non-container glass	0
Lead glass	0
Refractory (high-resistant) glass	0

- Ferrous metal contamination is 2 grams/ton or 2 ppm
- Non-Ferrous metal contamination is 3 grams/ton or 3 ppm
- Organic material contamination is 300 grams/ton or 300 ppm

### Note:

The HoReCa glass container only undergoes the process. Glass cullet should be free from any contaminants such as lead glass, high-resistant glass, non-container glass, plastic, organic materials, CSP, ferrous and non-ferrous metals. Efficient handpicking is strictly implemented.