



Recycled Glass, Low Emissions Manufacturing Produces Eco-Friendly Bottles

tbmin Beverages makes bottles that are truly green, not just in color but in environmental terms. Beginning with completely recycled glass, and utilizing a manufacturing process with almost no harmful emissions, tbmin's products give environmentally conscious wine and beer lovers one more reason to celebrate.

Here's a look inside tbmin Beverage's manufacturing process:

First, the recycled glass is weighed on a weighbridge, then directed onto the right color pile. The glass passes through a crusher, which pulverizes the glass into small pieces called cullet.

Any large pieces of non-glass waste are removed, a magnet is then used to lift out any metal waste, and a vacuum cleaner sucks up any lightweight materials such as paper. Finally, the cullet passes under a laser beam that detects any opaque material, like pottery.

After the glass is sorted, the cullet moves to the next room, where it is mixed with small amounts of other materials such as silica, sodium carbonate, and calcium carbonate. This mixture goes into the furnace, where the "new" glass begins its journey. The furnace reaches a temperature of 1,600 degrees Celsius and melts the materials together.

Thick strands of glass stretch down from the furnace and these are cut into short lengths, called "gobs," and dropped into various molds. A plunger is pushed down into the malleable glass, and air is blown into the resulting hole to force the glass into the shape of the mold.

The shaped bottles and jars are removed from the mold and placed in an oven, the glass is reheated to 550 degrees Celsius and then slowly cooled.

Each bottle is checked to ensure there are no defects. Any damaged or defective bottles are sent back to the furnace to be re-melted.

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