



Steel is made from the earth's most common natural resources, iron ore, limestone and coal. Another important ingredient is scrap steel recycled from such things as cars, refrigerators

2. IRONMAKING

Blended coal is heated in coke ovens to produce coke. The coke, iron ore and limestone are tipped into the blast furnace. Hot air is blasted through the furnace to increase the temperature and to convert the ingredients into molten iron. A hole is made in the bottom of the furnace and the molten iron is poured into ladles which are then taken to the steel furnace.

3. STEELMAKING

At the steelmaking plant the Basic Oxygen Steelmaking (BOS) vessel is tilted to allow scrap (recycled steel) and delivery to the can making factory. liquid iron from the blast furnace to be tipped into it. Oxygen at high temperature 5. CAN MAKING is then blown through the vessel. The oxygen combines with the carbon and them from the metal, leaving steel.

4. STEEL SLABS INTO COIL

and converted into slabs of solid steel. The slabs are passed through a series of rollers which squeeze the steel to make it thinner and longer. The long strip of steel is rolled into a 10 tonne coil and allowed to cool.

The coils are then finely coated with bottom of the can and cans above a either tin or chromium oxide (for tin certain height are "beaded" in the free steel) to protect from rusting, before centre with rings to strengthen them

There are two ways to produce cans, either using two or three pieces of other unwanted elements and separates metal. The traditional way is three piece fed through a machine to form small can making. Here the coils of steel are metal cups which are stretched into cut into I metre square sheets and, in taller cans all in one piece. This is most cases, they are then coated on the called the "draw and wall iron" Molten steel is tapped from the furnace inside with a coating of lacquer to extra (DWI) process. protect the food when inside the cans.

> The sheets are then cut into smaller rectangular pieces (or blanks) which are pallets ready to deliver to the food formed into cylinders and electronically filling factory that fills and closes the welded together. Lids are fixed to the cans with the other lid.

for filling, cooking and transportation.

The latest and more modern way to make food cans is two piece can making. Here the 10 tonne coils are

All cans are tested to make sure they will not leak and are then layered onto

6. FILLING CANS

All types of food arriving at the canning 7. PRESSURE COOKING factory are cleaned and prepared ready
The sealed cans are stacked and for the canning process.

Seasonal produce like fruit and vegetables are harvested at their peak condition, then peeled, trimmed, cored or sliced, as necessary. The produce is then quickly packed into the empty cans moving along a conveyor belt this ensures no nutrients are lost.

The appropriate liquid (brine, syrup, fruit juice or sauce) depending on the product, is poured in to fill the can, the

lid is closed to make the can airtight and the filled can proceeds to the most important stage - the cooking process.

heated in large pressure cookers called retorts and cooked for carefully selected temperatures and times depending on the product. Cooking the food in the can makes the food safe and gives it a long shelf life to ensure the food remains "fresh" until the can is opened.

8. TRANSPORT TO SHOPS

After the cans cool down they are labelled and loaded into trays or boxes recycled material. They are also for delivery to shops and stores for sale. 100% and infinitely recyclable.

9. USING CANS AT HOME

Canned foods may be eaten alongside fresh, frozen and chilled as part of a balanced nutritional healthy diet. Some cans even contribute to your 5-a-day. They can be stored in the cupboard and used for snacks or to help cook quick, easy and versatile meals - and cans are easy to recycle. What could be and transported to the steel plant. more CAN-venient?

10. RECYCLING

Food cans are made from steel or aluminium produced with 50% To recycle cans at home, it is helpful to rinse them first before being collected or taking them to the local can recycling bank.

All steel containers are magnetic and therefore easily separated from the other recyclables when they go to the recycling centre for sorting. All the different types of steel packaging are then crushed and baled,

In the steel plant, the bales are put into the furnace with other recyclable steel and the whole process starts over again. So your food cans could end up as a car, bike, fridge, bridge, paper clip or - another food can.



ALL THE PROPERTY OF



www.cannedfood.co.uk