

BOOST

FUTURE RUNNING TECHNOLOGY

MANUFACTURING PROCESS

1.- Storage of materials: The production of footwear begins with the receipt of the raw materials in the factory. The type of material, synthetic leather, inks, adhesives are classified and ordered.

2.- Transport to the process area: The selected materials are transported to the production area.



MANUFACTURING PROCESS

3.- **Cutting pieces:** This is done by molding to shape the synthetic skin according to the measure that is required, according to the model designed in an activity that can be external to the company.

4.- **Joining pieces:** The pieces are assembled for later elaboration. Each shoe bears 7 to 12 pieces depending on the model.



MANUFACTURING PROCESS

5.- Cutting machining: Several processes are required:

- **Foliate:** is the printing on the key liners, lot number, model number, size or measurement for quick selection and identification.

- **Engraving:** print of the brand on the insole.



MANUFACTURING PROCESS

Perforation: in some cases, this is carried out according to the design.

Piping: Before assembly, the cap is placed and counter-cut. The cap is what gives strength and shape to the toe of the shoe to give it greater consistency.



MANUFACTURING PROCESS

6.- **Mounting:** The last is selected according to the numbering to conform, fix the sole with nails and cement. This is done manually and a special machine is used to press and ensure that the shoe is well made and shaped. Tips and heels are mounted. Then the sealing process is performed which consists in making the cut perfectly set.

7.- **Finishing:** The insoles are glued, the edges of soles and linings are painted, the cut and linings are washed with special soap; the waste shoe of the productive process is cut.

MANUFACTURING PROCESS

8.- **Pigmentation:** This is done in order to standardize the color. The shoe is retouched with lacquer to give it shine, which is done with rotating brushes.

9.- **Packing:** The model number is printed and the product is stored in cardboard boxes.



MANUFACTURING PROCESS

10.- Storage of the finished product: Once packed, they are classified on shelves, by style and number.



PARTS OF THE SHOE

A running shoe is made up of:

Sole

Midsole

Upper sole



Sole:

It is the part that makes contact with the ground. The variability will then be given depending on the terrain on which we are going to run with them.

PARTS OF THE SHOE

Midsole

The midsole includes the middle materials between the upper and the outsole of the shoe that provides bounce and protection.



PARTS OF THE SHOE

Upper

The upper part of the shoe is located exactly where it says—the "upper" part of the shoe. The upper is the part of the shoe that reaches across the top of your foot and holds it in place. It also includes the laces and sides of the shoe where they meet the sole.



CHEMISTRY INSIDE SHOES:

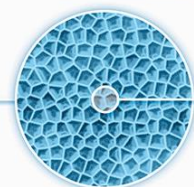


A look into the sole

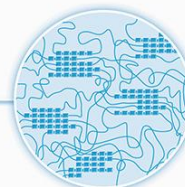
A video animation can be found online:



Midsole of five to ten millimeter fused foam beads made of Infinergy

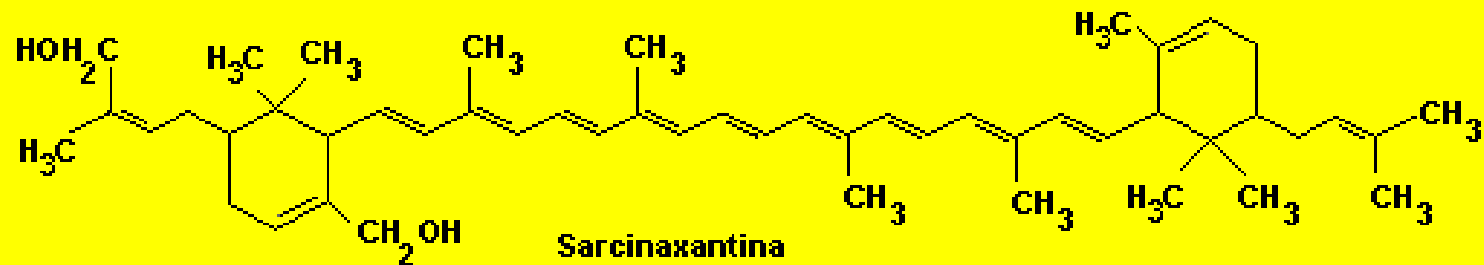
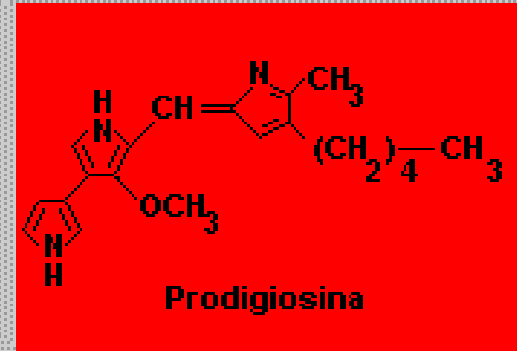
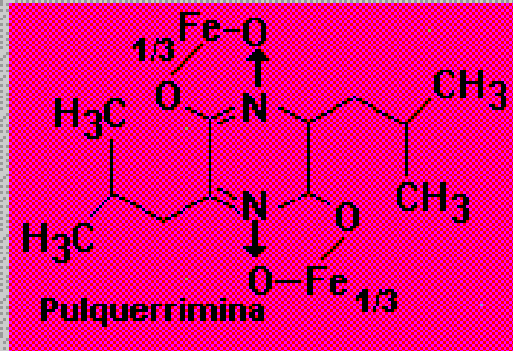
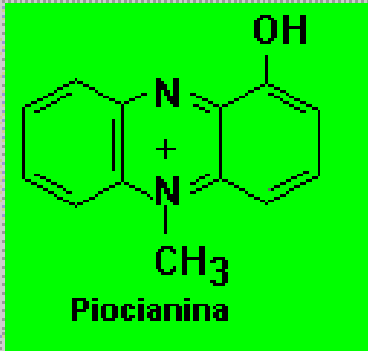


Cross section of foam bead with air bubbles measuring 30 to 300 microns



Molecular structure of the expanded thermoplastic polyurethane with stiff and elastic elements

TEXTILE PIGMENTS



BIBLIOGRAPHY:

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https://www.google.es/search?q=pelo+rojo+oscuro+cobrizo+volcanico&espv=2&source=lnms&tbm=isch&sa=X&ved=0ahUKEwj7sfnw93SAhXHAMAKHbavDdUQ_AUIBigB&biw=1440&bih=786#imgsrc=B2xqbaFw_f0wjM:

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BY: MARÍA, MIRIAM, IRENE AND RAMIRO