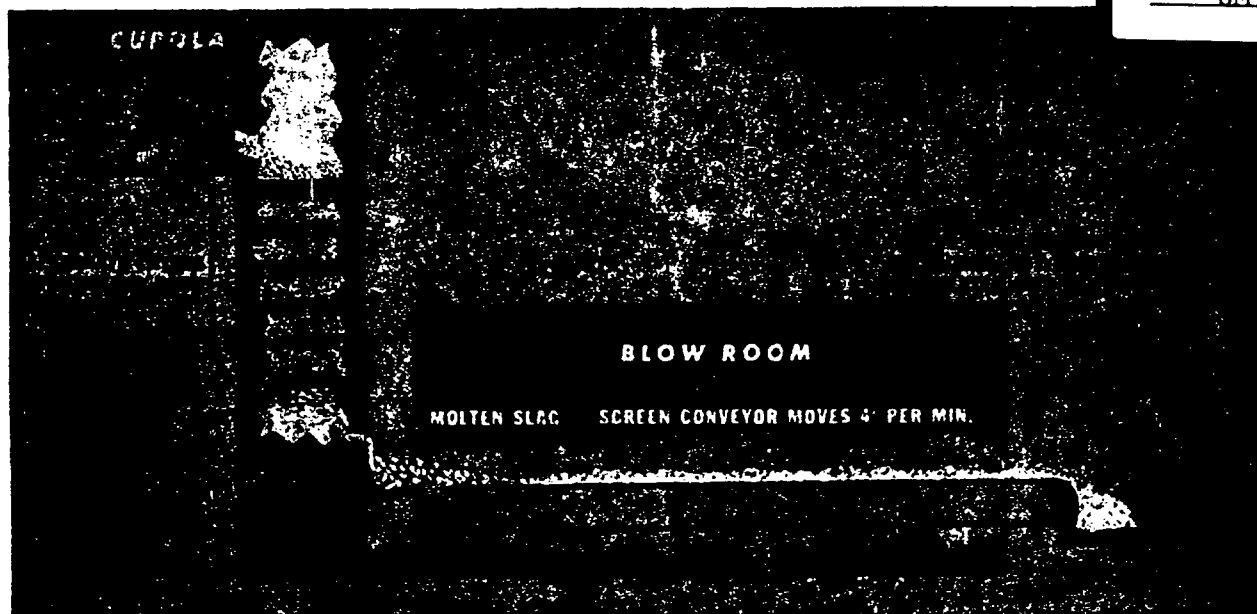




The above graphic illustration shows how mineral wool manufacturers bake a big layer cake of alternate layers of coke and rock or slag, and by the magic of industrial chemistry change the material into fluffy wool-like strands. The line cut below shows how raw materials are mixed and the various steps in making glass wool.

THE MANUFACTURE OF MINERAL WOOL— ROCK, SLAG AND GLASS

The drawing at the top of the page appeared in the May issue of Esso Oilways and illustrates the manufacturing process by which rock or slag is transformed into Mineral Wool. Below is a diagram or flow-sheet giving in detail the method by which silica sand, limestone and other mineral ingredients are treated to produce Mineral Wool from glass.

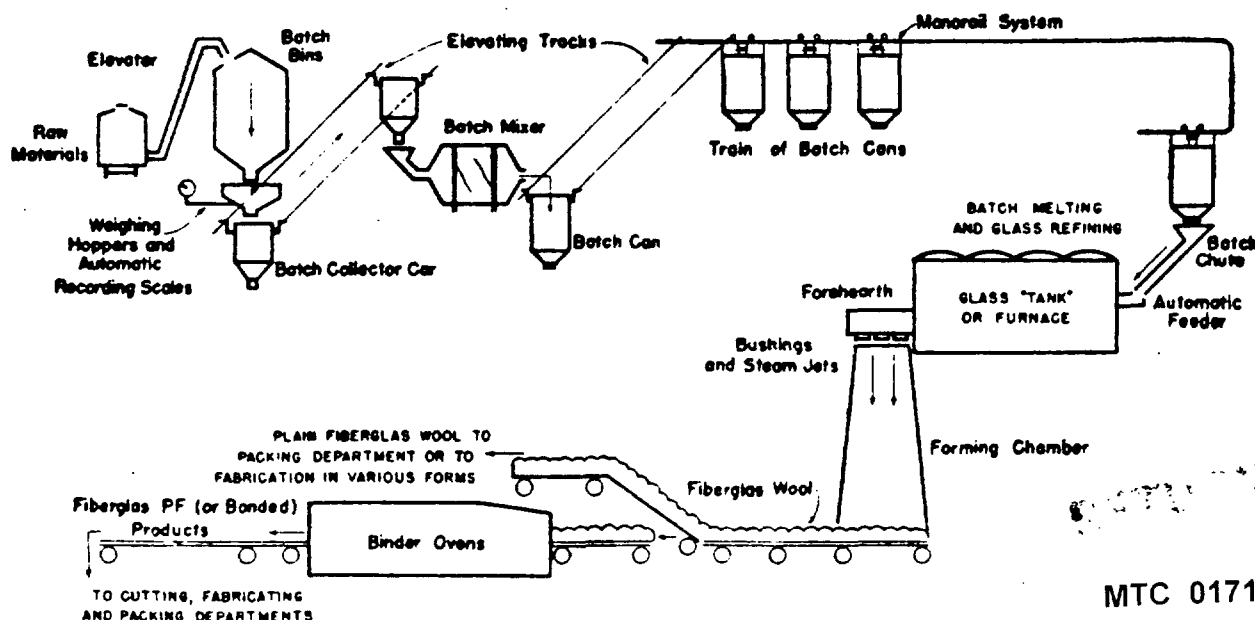
All processes by which Mineral Wool insulation is now being manufactured have been greatly improved of recent

years and the modern product is the perfected result of carefully controlled processing.

One important phase of the process by which rock or slag is made into Mineral Wool involves the use of a cupola. This is a cylindrically shaped melting furnace into which are loaded alternate layers of raw material and coke. At the bottom, the molten mass is allowed to flow downward out of an opening directly into the path of jets of steam by means of which it is resolved into a shower of

glowing particles. These develop into wool-like fibres during their trip through the air and, falling upon an endless screen conveyor, are slowly carried along for further processing into batts, blankets and granulated form.

In the lower diagram the machinery for weighing, mixing and producing Mineral Wool from glass is shown. From the bottom of the forming chamber the Mineral Wool is delivered for immediate packing or for additional fabrication into batts, blankets or granulated form.



MTC 017196