

THE LILLY RESEARCH LABORATORIES

Research in Manufacturing Pharmaceuticals and Biologicals

Every step in the manufacture of pharmaceutical and biological products calls for scientific supervision.

Crude vegetable drugs must pass botanical inspection; chemical tests and assays are also needed to make certain that materials used in manufacturing are of the proper identity and quality.

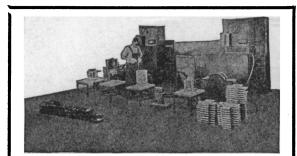
Research work is carried on all the year in the laboratories at Indianapolis and Greenfield, Indiana. During the summer a branch is maintained in the Marine Biological Laboratories, Woods Hole, Massachusetts, for investigations involving marine forms. Chemical and physiological assays are necessary to standardize finished products. The manufacture of antitoxins, vaccines and biologicals used in medical practice require the knowledge and skill of those trained in chemical, physiological and bacteriological sciences.

In addition to maintaining a staff for scientific supervision of manufacturing processes, years ago we saw the necessity of organizing a research department for the improvement of established preparations and the development of new medical products. The building pictured above is devoted entirely to scientific work.

The Lilly Research Laboratories are equipped for work in synthetic chemistry, physiological chemistry, physiology, pharmacology, bacteriology and immunology. On account of experience in industrial chemical research, we are especially prepared to undertake the problems of turning purely scientific discoveries to practical use. Our research staff cooperates with investigators in universities and clinics.

ELI LILLY AND COMPANY INDIANAPOLIS, INDIANA, U. S. A.

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Two 35kv-a converters and four 17 lb. steel melting furnaces used at plant of Ajax Electrothermic Corp. The converters operate 24 hours per day, five and one-half days per week. One furnace is operated from each converter. Double throw switches, one of which is visible, between right hand converter and furnace, change power from one furnace to another between melts. Two furnaces are poured and charged while metal is being melted in the other two.

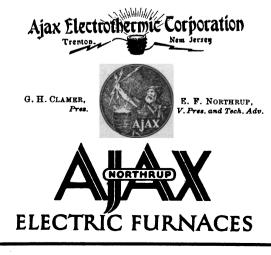
For Special Alloys

There is a wide field of usefulness in industry for a small electric furnace operating at temperatures well above the melting point of iron. Such furnaces are particularly useful for melting special steel alloys and for experimenting with various iron and steel alloys before beginning their production on a commercial scale.

Until the present time, electrical equipment and furnaces for small specialized commercial installations usually have been prohibitive in price and often unsatisfactory in service.

The Ajax-Northrup high frequency induction furnace is now offered to take care of just such existing conditions, and to enable manufacturers to produce special steel melts under conditions of accurate temperature control, absence of contamination of the melt by carbon, and with negligible losses due to volatilization of the crucible contents.

Send for the circular on STEEL MELT-ING in Ajax-Northrup furnaces.



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