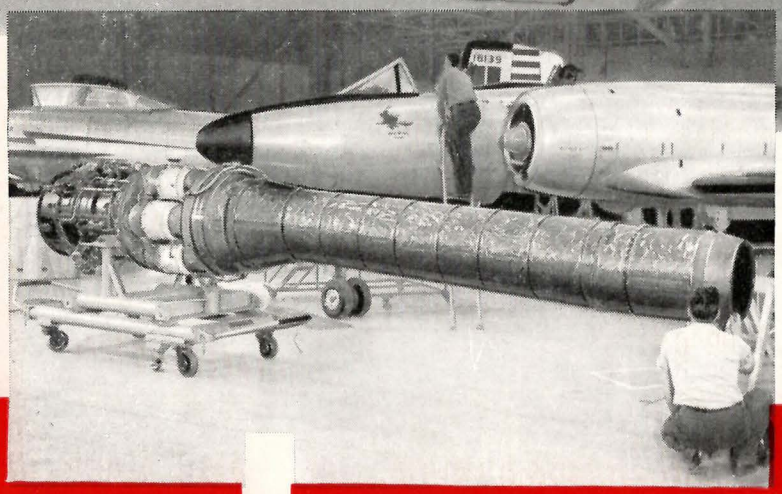
more heat = more power



Light-weight Inconel foil insulating blanket on a jet engine ready for installation in a CF-100 at A. V. Roe Canada Ltd.

INCO NICKEL ALLOYS CONTINUE TO RAISE THE THERMAL BARRIER

Man's introduction to fire was accidental but its use has marked his progress down through the ages. Today, one of the greatest demands for materials able to withstand ever-increasing thermal levels is from the aeronautical industry. Here the search for better alloys is continuous.

GAS TURBINE FIELD MOST DEMANDING

Nowhere is this demand more evident than in the gas turbine field where engine merit is most dependent upon material performance—for example, in the turbine blades. The first turbine blade alloy offered by INCO was Inconel "X"*, a titanium aluminum precipitation hardened Inconel*. Increased temperature demands on the blades led to the development of a modified grade of Inconel "X", Alloy 550.

DEVELOP NEW ALLOYS

Research workers are continuing development of new alloys to satisfy future demands of higher temperatures and stresses. Alloys also have been developed for less critical parts, such as the wheels into which the blades are fixed. Nickel is also an important component of the Inconel in the flame tubes and tail cone blankets, and the stainless steel in these tail cones. The search for better alloys still continues.

*T.M. Reg'd.

EMBLEM OF INCO SERVICE

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