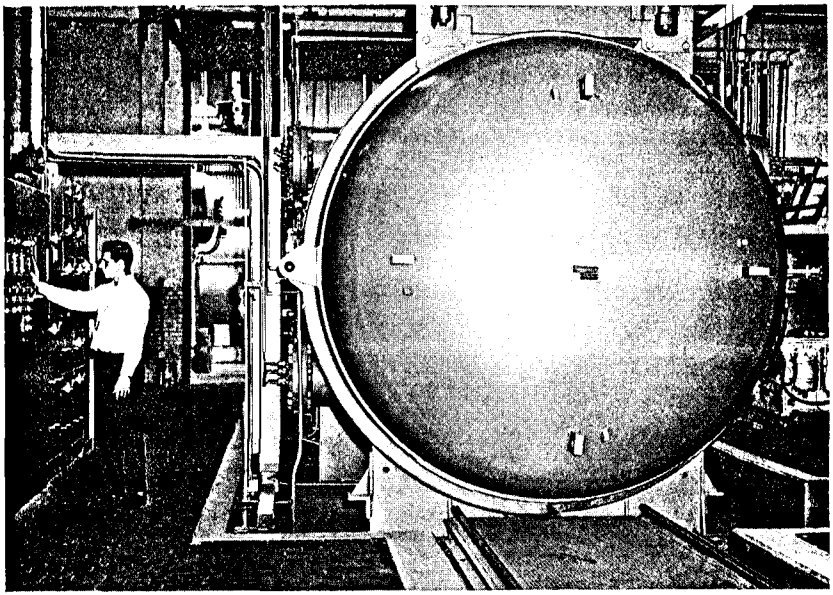
THERMINOL DESIGN ACHIEVEMENT:
Liquid heat transfer . . . for Resin Binding



Behind this door, Therminol® liquid heat transfer safely "cooks" high performance into jet fighters

Grumman Aircraft Engineering Corporation builds maximum strength with minimum weight into vital parts by bonding "skin" to the honeycomb structural network with an epoxy adhesive.

Autoclaving under heat and pressure cures the adhesive. A Therminol liquid heat transfer system supplies the heat . . . safely and efficiently. Safely, because Therminol is fire resistant. Efficiently, because Therminol provides uniform heat under close temperature control (±2° F.) for uniform bonding over the irregularly shaped parts.

Grumman based their decision for Therminol on three factors:

Safety. Therminol fluids are fire resistant and require no system pressure. They do not support combustion, even when exposed to direct flame. They are the only heat transfer fluids listed by Underwriters' Laboratories and recognized by the Factory Insurance Association.

Simplicity. No-pressure, liquid phase heat-transfer eliminates the costly construction and the expensive monitoring and safety devices necessary for high pressure systems.

The few simple controls necessary can even be monitored remotely with a teletype circuit feeding to a convenient location.

Efficiency. Therminol systems maintain their high initial efficiency through years of service with minimum maintenance. Therminol fluids present no scale or sludge problems. They are thermally stable, chemically inert, noncorrosive, and non-volatile. Properly maintained, Therminol systems require no make-up.

The safety, operating simplicity, and economy of Therminol FR indirect heating have been adapted wherever processing heat is applied—from food cooking and resin production, to petroleum refining and space heating.

MONSANTO
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St. Louis, Mo. 63166

Monsanto®

Please send me a copy of your engineering booklet, Therminol Fluid Heating Systems.

Name_____ Phone_____

Company_____

Address_____

City/State/Zip Code_____

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