bcc: RD/SS
A. R. Hempel - CHICAGO
D. L. Hosmer - CHICAGO

NOTE: Application is for Archer-Daniels-Midland Co. Considering Dowtherm or THERMINOL - "grab it, Dave".

February 15, 1966

Mr. Wayne Mueller
Assistant Ch. Engineer,
Applications
FOREX CORPORATION
500 W. Oklahoma Avenue
Milwaukee, Wisconsin

Dear Mr. Mueller:

I certainly enjoyed our telephone conversation last Thursday.

From your description of the air to oil exchanger, THERMINOL FR-1 would certainly be the fluid of choice for this application. Aside from its fire-resistance, THERMINOL FR-1 offers good low temperature properties and excellent fluid life.

Corrosion rates for mild steel in THERMINOL have been documented at 0.5-0.8 MPY for test temperatures of 650°F. Corrosion rates for electrical grade copper in THERMINOL have been documented at 1-2 MPY for test temperatures of 600°F.

At the lower temperatures of your application I am confident that the corrosion rates will be negligible.

I have included a THERMINOL FR Design Guide which I'm sure will be helpful.

If you desire additional help please contact me or our Fluids Specialist for your area, Mr. Dave Hosmer. He can be contacted at our Chicago office, Monsanto Company, 3158 Des Plaines Avenue, Des Plaines, Illinois 60018, Telephone (312) 296-6588. I'm sure he will be most happy to serve you.

Cordially,

Donald E. Roush
Technical Specialist
Functional Fluids

/ng
Encl.

DSW 435144

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