



**...that because of on-board fire problems during WW II, the Navy initiated a program to develop hydraulic fluids that were more fire resistant than mineral oils...**

**Yep, it's true:** in 1943, during World War II, the Navy experienced numerous on-board ship and aircraft disasters which were due to hydraulic line rupture and subsequent ignition of the resulting sprays. This led to the development, by the Naval Research Laboratory; of a new class of fire-resistant hydraulic fluids known as *hydrolubes* or water-glycol hydraulic fluid. In 1947 water-glycol hydraulic fluids were subsequently developed and commercialized which offered vastly improved fire resistance relative to mineral oils.<sup>1</sup>

**Gulf FR Fluid G-200** is a premium diethylene glycol based fire resistant hydraulic fluid developed to provide maximum fire protection in hydraulic systems often found in foundries, steel and aluminum mills. **Gulf FR Fluid G-200** has obtained \*Factory Mutual Approval (FM) as a less hazardous fluid.

#### Performance Features and Benefits:

- No flash or fire point
- Foam resistant and shear stable
- Distinct red color for easy identification
- Excellent wear protection for hydraulic pumps
- Hydraulic systems operating at 2,000 to 3,000 psi
- Diethylene glycol, 40% water and select additives
- Compatible with most hydraulic pumps, including vane, piston & gear



#### Main Applications:

Hydraulic systems on equipment operating in areas subject to fire hazards such as:

- Mining
- Steel & Aluminum Mills
- Paper and Pulp Processing
- Foundries & Die-Casting Plants
- Molding and Metal Die Casting Machinery
- Wood-Product Manufacturing and Lumber Mills
- Hydraulic operated oven and furnace doors



#### DETAILS:

- Product ID #334348
- Available immediately in bulk, totes and drums
- Competitive Pricing

\* When products are **FM Approved**, you know that they conform to the highest standards of quality, technical integrity and performance. The use of an **FM Approved** industrial fluid can prevent or significantly reduce the extent of damage and costs associated with a fire.

#### References

<sup>1</sup>G.E. Totten and R.J. Bishop, Jr. SAE Technical Paper Series, Paper #952076, Sept. 1995

For more information on this product along with special pricing consideration please contact your Gulf Territory Sales Manager. Please visit [www.gulflubricants.net](http://www.gulflubricants.net) for a detailed Product Information Sheets and SDS.

Gulf Lubricants Technical Advisor is available to answer your questions concerning specific lubricant applications or cross reference inquiries.

Please email questions to: [customerservice@nu-tierbrands.com](mailto:customerservice@nu-tierbrands.com)

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