

# Compatible Fuels & Applications

NOV Fiber Glass Systems' Red Thread® IIA and Dualoy piping systems, which includes primary and secondary pipe, primary and secondary fittings, coaxial pipe and adhesives are **UL 971 Listed** for the following fuels:

| Type A                                             | Type B                     |
|----------------------------------------------------|----------------------------|
| 100% Reference Fuel #2 (represents Diesel, per UL) | 1% HCl                     |
| 100% Fuel C (represents Unleaded Gasoline, per UL) | 1% Nitric Acid             |
| 85% Fuel C / 15% MTBE                              | Sodium Bicarbonate (pH 10) |
| 85% Fuel C / 15% Methanol                          | Sodium Hydroxide (pH 12)   |
| 70% Fuel C / 30% Ethanol                           | 100% Toluene               |
| 100% Methanol                                      |                            |
| 100% Ethanol                                       |                            |
| 50% Fuel C / 50% Methanol                          |                            |
| 50% Fuel C / 50% Ethanol                           |                            |
| 100% Premium Leaded Gasoline                       |                            |
| 100% Kerosene                                      |                            |

Fuels not specifically tested or UL971 Listed, but **compatible** with Red Thread IIA and Dualoy piping systems, which includes primary and secondary pipe, primary and secondary fittings, coaxial Dualoy and adhesives are as follows:

- E85 (although E85 is not specifically tested, UL did test E30, E50 and E100)
- Biodiesel (all blends)
- Aviation Gas

The 2005 UL 971 Standard, which became effective July 1, 2005, required testing for the following fuel groups:

## MV Fuels - Motor Vehicle

Type A - 100% Ref. Fuel #2, 100% Fuel C, 85% Fuel C/15% MTBE, 85% "C"/15% Methanol, 70% "C"/30% Ethanol

Type B - 1% HCl, 1% Nitric Acid, Sodium Bicarbonate (pH 10), Sodium Hydroxide (pH 12)

## CT Fuels - Concentrated

Type A - 100% Methanol and 100% Ethanol

Type B - None

## HB Fuels - High Blend

Type A - 50% "C"/50% Methanol and 50% "C"/50% Ethanol

Type B - 100% Toluene

## AM Fuels - Aviation and Marine

Type A - 100% Premium Leaded Gas and 100% Kerosene

Type B - None

The applications identified in the 2005 UL 971 Standard are as follows:

**PC** - Primary Carrier

**SC** - Secondary Containment

**NV** - Normal Vent

**VR** - Vapor Recovery

Red Thread IIA and Dualoy pipe, fittings and adhesives have been tested and UL Listed for all fuels and all applications identified in 2005 UL 971. This includes both the DW Bonded Sump Entry Fitting - termination style, and SW Bonded Sump Entry Fitting.

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