

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.

North America

17115 San Pedro Avenue
 Suite 200
 San Antonio, TX 78232 USA
 Phone: +1 210 477 7500

South America

Estrada de Acesso à Zona
 Industrial Portuária de Suape, s/no.
 Recife, PE, Brazil 55.590-000
 Phone: +55 81 3501 0023

Europe

P.O. Box 6, 4190 CA
 Geldermalsen, The Netherlands
 Phone: +31 345 587 587

Asia Pacific

No. 7A, Tuas Avenue 3
 Jurong, Singapore 639407
 Phone: +65 6861 6118

Middle East

P.O. Box 17324
 Dubai, UAE
 Phone: +971 4881 3566

www.fgspipe.com • fgspipe@nov.com

