

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

 **Fiber Glass Systems**