

Ethanol

Manufacturer's Affirmative Statement of Compatibility
(As required by California Code of Regulations section 2631(k))

Hector Mercado
Print Name

Manager, Applications Engineering
Title


Manufacturer's Authorized Signature

5/15/12
Date



**Underwriters
Laboratories Inc.**

Northbrook Division

333 Pfingsten Road
Northbrook, IL 60062-2096 USA
www.ul.com
tel: 1 847 272 8800
fax: 1 847 272 8129
Customer service: 1 877 854 3577

2005-11-08

Mr. Hector Mercado
Ameron International Corp
1004 Ameron Rd Po Box 878
Burkburnett, TX 76354
United States

Fax number: 940-569-8644

Reference: File MH9162 Project 04CA47201

Product: USL/CNL – Diameters 2", 3", 4" & 6" Series Dualoy 3000/L Primary Carrier and Secondary Containment Piping, Diameters 2", 3" & 4" Series Dualoy 3000/LCX Integral Primary/Secondary Piping, and Series PSX-20 and PSX-34 Adhesives for Conveying Primary Product, Vent and Vapor Recovery of Motor Vehicle Fuels, Concentrated Fuels, High Blend Fuels and Aviation and Marine Fuels

Dear Mr. Mercado:

We have completed our engineering review and testing of the products under the above project number and find the products comply with the applicable requirements of UL971, Standard for Nonmetallic Underground Piping for Flammable Liquids with revisions through and including March 2, 2006.

This letter confirms your authorization to apply the UL/cUL Listing Mark only at the factory under UL's Follow-Up Service Program to the subject products, which are constructed as described below:

Identical to the subject models, which were submitted to UL for this investigation and are covered in the Follow-Up Services Procedure, File MH9162, Volume 1.

Products that bear the UL Mark shall be identical to those that were evaluated by UL and found to comply with UL's requirements. If changes in construction are discovered, appropriate action will be taken for products not in conformance with UL's requirements and continued use of the UL Mark may be withdrawn.

Sincerely,

Wayne B. Doversberger
Staff Engineer
Department: 3009DNBK
Tel: 847 664-2072
Fax: 847 313-2072
E-mail: wayne.b.doversberger@us.ul.com

Reviewed by:

Tim Crews
Staff Engineer
Department: 3009DNBK
E-mail: timothy.a.crews@us.ul.com



File #	MH9162	Project #	04CA47201	Page	9 of 101
Applicant	Ameron Int'l	Series		Date	- -
Eval by		Signature			

TABLE 15A PIPING SAMPLE TYPE, SYSTEM, SIZE and RATING SELECTION CHART

Flex Piping System	Worst Case Size	External Soil Fluids (1)	Motor Vehicle Fuels (2)	High Blend Fuels (3)	Marine & Aviation Fuels (4)	Concentrate Fuels (5)
PC	2"	Required	Required	[X] Option	[X] Option	[X] Option
IS	2"	Required	Required	[X] Option	[X] Option	[X] Option
# Sets	3 samples per set required	4 periods 8 fluids = 32 sets	4 periods 5 fluids = 20 sets	4 periods 2 fluids = 8 sets	4 periods 2 fluids = 8 sets	4 periods 3 fluids = 12 sets

(1A) = Type A Soil Fluids and sample ID codes are:

(SA) = pH 3 Sulfuric Acid (SC) = Sodium Chloride
(DW) = Distilled Water (A) = Heated Air @ 70C

(1B) = Type B Soil Fluids and sample ID codes are:

(HA) = 1% Hydrochloric Acid (NA) = 1% Nitric Acid
(SH) = pH 12 Sodium Hydroxide (CB) = pH 10 Sodium carb/bicarb

(2A) = Type A Motor Vehicle Fuels and sample ID codes are:

(FF) = 100% ASTM Ref Fuel F (FC) = 100% ASTM Ref Fuel C
(ME) = 85% Fuel C/15% MTBE (15M) = 85% Fuel C/15% Methanol
(30E) = 70% Fuel C/30% Ethanol

(3A) = Type A High Blend Fuels and sample ID codes are:

(50M) = 50% Fuel C/50% Methanol (50E) = 50% Fuel C/50% Ethanol

(4A) = Type A Marine & Aviation Fuels and sample ID codes are:

(PG) = 100% Premium Leaded Gas (KE) = 100% Kerosene

(5A) = Type A Concentrated Fuels and sample ID codes are:

(M) = 100% Methanol (E) = 100% Ethanol

(5B) = Type B Concentrated Fuels and sample ID codes are:

(TO) = 100% Toluene

ULS-00971-QLXT & QMDX-DataSheet-0001	Form Issued:	2004-03-30
Form Page 9	Form Revised:	
Form Copyright © 2004 Underwriters Laboratories Inc.		

Only those products bearing the UL Mark should be considered as being covered by UL.

File #	MH9162	Project #	04CA47201	Page	74 of 101
Applicant	Ameron Int'l	Series		Date	- -
Eval by		Signature			

TABLE 17 PIPING SAMPLE TYPE, SYSTEM, SIZE and RATING SELECTION CHART

Flex Piping System	Worst Case Size	External Soil Fluids (1)	Motor Vehicle Fuels (2)	High Blend Fuels (3)	Marine & Aviation Fuels (4)	Concentrate Fuels (5)
PC	2"	N.A.	Required	[x] Option	[X] Option	[X] Option
IS	2"	N.A.	Required	[x] Option	[X] Option	[X] Option
# Sets	3 samples per set required	N.A.	5 fluids = 5 sets	2 fluids = 2 sets	2 fluids = 2 sets	3 fluids = 3 sets

(1A) = Type A Soil Fluids and sample ID codes are:

(SA) = pH 3 Sulfuric Acid (SC) = Sodium Chloride
(DW) = Distilled Water (A) = Heated Air @ 70C

(1B) = Type B Soil Fluids and sample ID codes are:

(HA) = 1% Hydrochloric Acid (NA) = 1% Nitric Acid
(SH) = pH 12 Sodium Hydroxide (CB) = pH 10 Sodium carb/bicarb

(2A) = Type A Motor Vehicle Fuels and sample ID codes are:

(FF) = 100% ASTM Ref Fuel F (FC) = 100% ASTM Ref Fuel C
(ME) = 85% Fuel C/15% MTBE (15M) = 85% Fuel C/15% Methanol
(30E) = 70% Fuel C/30% Ethanol

(3A) = Type A High Blend Fuels and sample ID codes are:

(50M) = 50% Fuel C/50% Methanol (50E) = 50% Fuel C/50% Ethanol

(4A) = Type A Marine & Aviation Fuels and sample ID codes are:

(PG) = 100% Premium Leaded Gas (KE) = 100% Kerosene

(5A) = Type A Concentrated Fuels and sample ID codes are:

(M) = 100% Methanol (E) = 100% Ethanol

(5B) = Type B Concentrated Fuels and sample ID codes are:

(TO) = 100% Toluene

ULS-00971-QLXT & QMDX-DataSheet-0001	Form Issued:	2004-03-30
Form Page 74	Form Revised:	
Form Copyright © 2004 Underwriters Laboratories Inc.		

Only those products bearing the UL Mark should be considered as being covered by UL.

Ethanol

Manufacturer's Affirmative Statement of Compatibility
(As required by California Code of Regulations section 2631(k))

Michael Connor
Manufacturer's Authorized Signature

5/15/2012

Date

RED THREAD® IIA PIPING SYSTEMS

***UNDERWRITERS LABORATORIES INC.
PRODUCT LISTING LETTERS
FGS COMPATIBLE FUELS***

www.fgspipe.com

2700 West 65th Street
Little Rock, Arkansas 72209
Phone: 1 (501) 618-2256

 Fiber Glass Systems



**Underwriters
Laboratories Inc.®**

Northbrook Division
333 Pfingsten Road
Northbrook, IL 60062-2091
www.ul.com
tel: 1 847 272 8800
fax: 1 847 272 8129
Customer service: 1 877 8

NOTICE OF AUTHORIZATION TO APPLY THE UL MARK

2004-10-06

Mr. Leonard Pikey
Smith Fibercast
2700 W 65th St
Little Rock AR 72209
United States

Fax number: 501-562-4805

Reference: File MH8432 Project 04NK23885 P.O. Number LEONARD PIKEY
Product: USL - 4X3 AND 3X2 TERMINATION FITTINGS

Dear Mr. Pikey:

UL's investigation of your products has been completed under the above project number and the subject products were determined to comply with the applicable requirements.

This letter temporarily supplements the UL Follow-Up Services Procedure and serves as authorization to apply the UL Listing Mark only at the factory under UL's Follow-Up Service Program to the subject product, which is constructed as described in the attached.

This authorization applies only to the address on this letter.

This authorization is effective from the date of this Notice and only for products at the indicated manufacturing locations. Records in the Follow-Up Services Procedure covering the product are now being prepared and will be sent to the indicated manufacturing locations in the near future. Please note that Follow-Up Services Procedures are sent to the manufacturers only unless the Applicant specifically requests this document.

Products that bear the UL Mark shall be identical to those that were evaluated by UL and found to comply with UL's requirements. If changes in construction are discovered, appropriate action will be taken for products not in conformance with UL's requirements and continued use of the UL Mark may be withdrawn.

Sincerely,

Tim Crews
Staff Engineer
Hazardous Locations, Gas & Oil
Tel: 847-664-2516
Fax: 847-313-2516
E-mail: timothy.a.crews@us.ul.com

Reviewed by:

Wayne B Doversberger
Staff Engineer
Hazardous Locations, Gas & Oil
E-mail: wayne.b.doversberger@us.ul.com



**Underwriters
Laboratories Inc.®**

Northbrook Division
333 Pfingsten Road
Northbrook, IL 60062-20
www.ul.com
tel: 1 847 272 8800
fax: 1 847 272 8129
Customer service: 1 877

NOTICE OF AUTHORIZATION TO APPLY THE UL MARK

2005-07-01

Mr. Leonard Pikey
Smith Fibercast
2700 W. 65th St.
Little Rock, AR
United States

E-mail: lpiskey@varco.com.com

Reference: File MH8432 Project 04NK19367

Products: USL/CNL - 2, 3 and 4 in. Diameter Red Thread IIA Carrier, Secondary Containment, Vent and Vapor Recovery Pipe and Fittings and DS7000 and DS8000 Series Adhesives for Use With Motor Vehicle Fuels, Concentrated Fuels, High Blend Fuels and Aviation and Marine Fuels

Dear Mr. Pikey,

UL's investigation of your products have been completed under the above project number and the subject product was determined to comply with the applicable requirements of UL971, Standard for Nonmetallic Underground Piping for Flammable Liquids, First Edition Dated October 30, 1995, with revisions dated January 2, 2004.

This letter temporarily supplements the UL Follow-Up Services Procedure and serves as authorization to apply the UL Listing Mark only at the factory under UL's Follow-Up Service Program to the subject products, which are constructed similarly to those product submitted for this investigation and to products covered in the UL Follow-Up Services Procedure, File MH8432, Volume 1.

This authorization applies only to the address on this letter.

This authorization is effective from the date of this Notice and only for products at the indicated manufacturing locations. Records in the Follow-Up Services Procedure covering the product are now being prepared and will be sent to the indicated manufacturing locations in the near future. Please note that Follow-Up Services Procedures are sent to the manufacturers only unless the Applicant specifically requests this document.

Products that bear the UL Mark shall be identical to those that were evaluated by UL and found to comply with UL's requirements. If changes in construction are discovered, appropriate action will be taken for products not in conformance with UL's requirements and continued use of the UL Mark may be withdrawn.

Sincerely,

Tim Crews
Staff Engineer
Hazardous Locations, Gas & Oil
Tel: 847-664-2516
Fax: 847-313-2516
E-mail: timothy.a.crews@us.ul.com

Reviewed by:

Wayne Doversberger
Staff Engineer
Hazardous Locations, Gas & Oil



the standard in safety

Underwriters
Laboratories

NOTICE OF AUTHORIZATION TO APPLY THE UL MARK

2007-11-15

Mr. Leonard Pikey
Smith Fibercast
2700 W 65th St
Little Rock AR 72209
United States

E-mail: lpikey@varco.com

Reference: File MH8432 Project 07NK19973 P.O. Number 46998

Product: USL/CNL- 6 IN. DIAMETER SECONDARY CONTAINMENT PIPE AND FITTINGS

Dear Mr. Pikey,

Any information and documentation involving UL Mark services are provided on behalf of Underwriters Laboratories Inc. (UL) or any authorized licensee of UL.

UL's investigation of your product has been completed under the above project number and the subject product was determined to comply with the applicable requirements.

This letter temporarily supplements the UL Follow-Up Services Procedure and serves as authorization to apply the UL Listing Mark only at the factory under UL's Follow-Up Service Program to the subject product, which is constructed as described below:

Identical to the subject model, which was submitted to UL for this investigation. The UL Records covering the product will be in the Follow-Up Services Procedure, File MH8432, Volume 1.

This authorization applies only to the address on this letter.

This authorization is effective from the date of this Notice and only for products at the indicated manufacturing locations. Records in the Follow-Up Services Procedure covering the product are now being prepared and will be sent to the indicated manufacturing locations in the near future. Please note that Follow-Up Services Procedures are sent to the manufacturers only unless the Applicant specifically requests this document.

Products that bear the UL Mark shall be identical to those that were evaluated by UL and found to comply with UL's requirements. If changes in construction are discovered, appropriate action will be taken for products not in conformance with UL's requirements and continued use of the UL Mark may be withdrawn.

Sincerely,

Reviewed by:

Tim Crews

Tim Crews
Staff Engineer
Department: 3009DNBK
Tel: 847-664-2516
Fax: 847-313-2516
E-mail: timothy.a.crews@usul.com

Wayne Doversberger

Wayne Doversberger
Staff Engineer
Department: 3009DNBK
E-mail: wayne.b.doversberger@us.ul.com



**Underwriters
Laboratories Inc.®**

Northbrook Division

333 Pfingsten Road
Northbrook, IL 60062-2096 USA
www.ul.com
tel: 1 847 272 8800
fax: 1 847 272 8129
Customer service: 1 877 854 3577

July 29, 2005

Mr. Jack Bales
Smith Fibercast
2700 W. 65th St.
Little Rock, AR
United States

E-mail: jbales@varco.com

Reference: File MH8432

Products: UL Listing Mark on Underground Piping Fittings for Flammable Liquids

Dear Mr. Bales:

This confirms that the Listing Mark of Underwriters Laboratories Inc. may be applied either directly to your UL Listed underground piping fittings for flammable liquids, or on the smallest unit container in which the fittings are packaged.

Please contact me if you have any questions.

Sincerely,

A handwritten signature in black ink, appearing to read 'Tim Crews'.

Tim Crews
Staff Engineer
Hazardous Locations, Gas & Oil
Tel: 847-664-2516
Fax: 847-313-2516
E-mail: timothy.a.crews@us.ul.com

UL 971 Listed and Compatible Fuels

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

Type A

- 100% Reference Fuel #2 (represents Diesel, per UL)
- 100% Fuel C (represents Unleaded Gasoline, per UL)
- 85% Fuel C/15% MTBE
- 85% Fuel C/15% Methanol
- 70% Fuel C/30% Ethanol
- 100% Methanol
- 100% Ethanol
- 50% Fuel C/50% Methanol
- 50% Fuel C/50% Ethanol
- 100% Premium Leaded Gasoline
- 100% Kerosene

Type B

- 1% HCl
- 1% Nitric Acid
- Sodium Bicarbonate (Ph 10)
- Sodium Hydroxide (Ph 12)
- 100% Toluene

Fuels not specifically tested or UL 971 Listed, but **compatible** with Red Thread IIA piping systems, which includes primary & secondary pipe, primary & secondary fittings and adhesives, are as follows:

- E85 (although E85 is not specifically tested, UL did test E30, E50 and E100)
- Biodiesel (All Blends)
- Av-Gas
- Jet Fuel

The 2005 UL 971 Standard, which became effective on 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% METH., 70% "C"/30% ETH.)

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

CT Fuels- Concentrated

Type A- 100% Methanol & 100% Ethanol

Type B- None

HB Fuels- High Blend

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

Type B- 100% Toluene

AM Fuels- Aviation & Marine

Type A- 100% Premium Leaded Gas & 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

NOV Fiber Glass Systems Red Thread IIA 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/Termination and SW Bonded Sump Entry Fittings.

www.fgspipe.com

2700 West 65th Street
Little Rock, Arkansas 72209
Phone: 1 (501) 568-4010

NOV Fiber Glass Systems

©2010 NATIONAL OILWELL VARCO
®Trademark of NATIONAL OILWELL VARCO
July 2010