

SAMPLE TEST RESULTS

REPORT FOR: XYZ Sprinkler Company
2357 VENTURA DR
STE 108
SAINT PAUL MN 55125

PO: 1234
Job ID: Example Antifreeze
2357 Ventura Dr
Woodbury MN 55125

Job Number: 47916
Date Received: 12/17/2024
Report Date: 12/26/2024
Page: 1 of 6

Sample Information	Test	Method (LBTR-)	Requirement	Test Value	Test Result
Sample Number: 1 Sample ID: System 1 System Volume: Not Specified Manufacturer: Tyco Product: LFP® Antifreeze Type: Antifreeze/Water Sol. Lot Number: Not Specified Date Purchased: Not Specified Tank Type: Sprinkler System Sampling Point: Bottom	<u>Physical Properties</u>				
	Appearance	3001	Liquid, Colorless	Colorless liquid	Info Only
	Refractive Index*	3006	1.3960-1.3995	1.3980	In Spec
	Density, g/ml*	3044	1.118-1.126	1.125	In Spec
	pH*	3003	7.0-8.0	7.5	In Spec
	<u>Performance Properties</u>				
	Concentration, % by volume	3040	100	100	Pass
	Freeze Point, °F	3040	-13	-13	Pass
	Freeze Point, °C	3040	-25	-25	Pass
	Listed Antifreeze Verification	3608	Pass	Pass	Pass
	<u>Interpretations</u>				
	Overall Result		Pass	Pass	Pass

Comments:

This listed antifreeze solution sample was tested as required by NFPA 25, 2023 edition, section 5.3.4 (3). This sample met the performance requirements. The product represented by this sample shall be listed for use in the corresponding system/application and must be resampled and tested at least annually.

Alyssa Dunn

Alyssa Dunn, Lab Manager

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Page: 2 of 6

Sample Information	Test	Method (LBTR-)	Requirement	Test Value	Test Result
Sample Number: 2 Sample ID: System 2 System Volume: Not Specified Manufacturer: Lubrizol Product: freezemaster™ Antifreeze Type: Antifreeze/Water Sol. Lot Number: Not Specified Date Purchased: Not Specified Tank Type: Sprinkler System Sampling Point: Bottom	<u>Physical Properties</u>				
	Appearance	3001	Clear blue liquid	Blue liquid	Info Only
	Refractive Index*	3006	1.3900-1.3940	1.3900	In Spec
	Density, g/ml*	3044	1.082-1.091	1.080	Out of Spec
	pH*	3003	Not Specified	7.0	In Spec
	<u>Performance Properties</u>				
	Concentration, % by volume	3040	100	100	Pass
	Freeze Point, °F	3040	-15	-15	Pass
	Freeze Point, °C	3040	-26	-26	Pass
	Listed Antifreeze Verification	3608	Pass	Pass	Pass
	<u>Interpretations</u>				
	Overall Result		Pass	Pass	Pass

Comments:

This listed antifreeze solution sample was tested as required by NFPA 25, 2023 edition, section 5.3.4 (3). This sample met the performance requirements. The product represented by this sample shall be listed for use in the corresponding system/application and must be resampled and tested at least annually.

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Page: 3 of 6

Sample Information	Test	Method (LBTR-)	Requirement	Test Value	Test Result
Sample Number: 3 Sample ID: 3 System Volume: Not Specified Manufacturer: Tyco Product: LFP® Antifreeze+ Type: Antifreeze/Water Sol. Lot Number: Not Specified Date Purchased: Not Specified Tank Type: Not Specified Sampling Point: Not Specified	<u>Physical Properties</u>				
	Appearance	3001	Liquid, Colorless	Colorless liquid	Info Only
	Refractive Index*	3006	1.4065-1.4095	1.4070	In Spec
	Density, g/ml*	3044	1.143-1.150	1.150	In Spec
	pH*	3003	7.0-8.0	7.5	In Spec
	<u>Performance Properties</u>				
	Concentration, % by volume	3040	100	100	Pass
	Freeze Point, °F	3040	-29	-29	Pass
	Freeze Point, °C	3040	-34	-34	Pass
	Listed Antifreeze Verification	3608	Pass	Pass	Pass
	<u>Interpretations</u>				
	Overall Result		Pass	Pass	Pass

Comments:

This listed antifreeze solution sample was tested as required by NFPA 25, 2023 edition, section 5.3.4 (3). This sample met the performance requirements. The product represented by this sample shall be listed for use in the corresponding system/application and must be resampled and tested at least annually.

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Page: 4 of 6

Sample Information	Test	Method (LBTR-)	Requirement	Test Value	Test Result
Sample Number: 4 Sample ID: System 4 System Volume: Not Specified Manufacturer: Not Specified Product: Antifreeze- Propylene Glycol Type: Prop. Glycol/Water Sol. Lot Number: Not Specified Date Purchased: Not Specified Tank Type: Sprinkler System Sampling Point: Bottom	<u>Physical Properties</u>				
	Appearance	3001	Not Specified	Colorless liquid	Info Only
	Refractive Index*	3006	Not Specified	1.3622	In Spec
	Density, g/ml*	3044	Not Specified	1.021	In Spec
	pH*	3003	Not Specified	6.0	In Spec
	<u>Performance Properties</u>				
	Concentration, % by volume	3040	30% Maximum	26	Pass
	Freeze Point, °F	3040	Customer Determines	13	Info Only
	Freeze Point, °C	3040	Customer Determines	-10	Info Only
	<u>Interpretations</u>				
	Overall Result		Pass	Pass	Pass

Comments:

This legacy premixed propylene glycol and water solution sample was tested as required by NFPA 25, 2023 edition, section 5.3.4 (3). This sample met the performance requirements. The product represented by this sample shall be listed for use in the corresponding system/application and must be resampled and tested at least annually.

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Page: 5 of 6

Sample Information	Test	Method (LBTR-)	Requirement	Test Value	Test Result
Sample Number: 5 Sample ID: System 5 System Volume: Not Specified Manufacturer: Not Specified Product: Antifreeze- Glycerine Type: Glycerine/Water Sol. Lot Number: Not Specified Date Purchased: Not Specified Tank Type: Sprinkler System Sampling Point: Bottom	<u>Physical Properties</u>				
	Appearance	3001	Not Specified	Orange liquid	Info Only
	Refractive Index*	3006	Not Specified	1.3824	In Spec
	Density, g/ml*	3044	Not Specified	1.095	In Spec
	pH*	3003	Not Specified	6.0	In Spec
	<u>Performance Properties</u>				
	Concentration, % by volume	3040	38% Maximum	33	Pass
	Freeze Point, °F	3040	Customer Determines	6	Info Only
	Freeze Point, °C	3040	Customer Determines	-14	Info Only
	<u>Interpretations</u>				
	Overall Result		Pass	Pass	Pass

Comments:

This legacy premixed glycerine and water solution sample was tested as required by NFPA 25, 2023 edition, section 5.3.4 (3). This sample met the performance requirements. The product represented by this sample shall be listed for use in the corresponding system/application and must be resampled and tested at least annually.

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Sample Information	Test	Method (LBTR-)	Requirement	Test Value	Test Result
Sample Number: 6 Sample ID: System 6 System Volume: Not Specified Manufacturer: Not Specified Product: Antifreeze- Unknown Type Type: Antifreeze/Water Sol. Lot Number: Not Specified Date Purchased: Not Specified Tank Type: Sprinkler System Sampling Point: Bottom	<u>Physical Properties</u>				
	Appearance	3001	Not Specified	Colorless liquid	Info Only
	Refractive Index*	3006	Not Specified	1.3330	In Spec
	Density, g/ml*	3044	Not Specified	0.998	In Spec
	pH*	3003	Not Specified	7.0	In Spec
	<u>Performance Properties</u>				
	Concentration, % by volume	3040	Can't Identify	NA	Fail
	Freeze Point, °F	3040	Can't Identify	NA	Fail
	Freeze Point, °C	3040	Can't Identify	NA	Fail
	<u>Interpretations</u>				
	Overall Result		Pass	Fail	Fail

Comments:

This legacy premixed antifreeze solution sample was tested as required by NFPA 25, 2023 edition, section 5.3.4 (3). This sample did NOT meet one or more of the performance requirements - further investigation/replacement is recommended.

Because the solution is diluted, it cannot be verified whether it is glycerine or propylene glycol and in accordance with NFPA 25, if the chemical cannot be verified the solution must be replaced.

Alyssa Dunn

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