

# AHJS

## WHAT AHJS NEED TO KNOW ABOUT NFPA ANTIFREEZE REQUIREMENTS

Many are not aware that NFPA fire sprinkler standards require new antifreeze systems to use an agency-listed antifreeze. And these same standards require that existing systems use an agency-listed antifreeze by September 30, 2022. With the launch of freezema<sup>TM</sup> antifreeze, it has never been easier to be in full compliance with these requirements.

### Changes Affect Building Renovation, Retrofit and New Construction

NFPA standards require that glycerin and propylene glycol antifreeze solutions used in existing wet sprinkler systems be replaced with a factory premixed agency-listed antifreeze solution by September 30, 2022. Since 2013, all new systems using antifreeze for Residential, Light Hazard, Ordinary Hazard and Storage applications must use a listed antifreeze product.

freezema<sup>TM</sup> antifreeze remains in a protective liquid state at temperatures as low as -12°F (-24°C), the lowest temperature of any listed antifreeze meeting the requirements of UL 2901, “Standard for Antifreeze Solutions for Use in Fire Sprinkler Systems.” Listed solutions are factory premixed for maximum safety and formulated to inhibit the metallic corrosion that can degrade system integrity and threaten life safety.

freezema<sup>TM</sup> antifreeze has been safety tested and can be installed and serviced in sprinkler systems for NFPA 13, 13R and 13D applications, including at volumes up to 500 gallons for NFPA 13 (Light Hazard) systems\*.

Documentation, including system tags, is available for all freezema<sup>TM</sup> antifreeze systems, making it easier to confirm that a sprinkler system meets the criteria set forth by NFPA including use of an agency-listed antifreeze product.\*

For more on standards for propylene glycol and glycerin systems, download the Antifreeze Solution Requirements per NFPA Standards chart at [freezema.com/chart](http://freezema.com/chart)

ANTIFREEZE SOLUTION REQUIREMENTS PER NFPA STANDARDS			
STANDARD	SECTION	PROPYLENE GLYCOL	GLYCERIN
NFPA 13	13-10, 8.6.2	Shall be listed for use in sprinkler systems	Shall be listed for use in sprinkler systems
NFPA 13D	13D-10, 9.2.2	Shall be listed for use in sprinkler systems or 30% with AHJ approval	Shall be listed for use in sprinkler systems or 40% with AHJ approval
NFPA 13R	13R-10, 5.4.2	Follow NFPA 13; Shall be listed for use in sprinkler systems	Follow NFPA 13; Shall be listed for use in sprinkler systems
NFPA 25 All systems installed prior to 9/30/2012	25-17, 5.3.3.4	Before 9/30/2022 Listed antifreeze or: • Premixed non-listed 50% by volume • Pre-mixed non-listed between 30-40% with a deterministic risk assessment and AHJ approval After 9/30/2022 • Listed antifreeze	Before 9/30/2022 Listed antifreeze or: • Pre-mixed non-listed 38% by volume • Pre-mixed non-listed between 38-50% with a deterministic risk assessment and AHJ approval After 9/30/2022 • Listed antifreeze
NFPA 25 All systems installed after 9/30/2012	25-17, 5.3.3.4.1	Shall be listed for use in sprinkler systems	Shall be listed for use in sprinkler systems

Note: New listed solutions are not required to be glycerin or glycol based as long as they pass UL 2901  
\*Effective since 2013 version

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Building on more than 30 years of fire safety expertise, freezema<sup>TM</sup> antifreeze was precisely formulated by Lubrizol Advanced Materials to deliver critical performance to building owners and assure the safety of occupants and property. **For more information, visit [freezema.com](http://freezema.com).**

\*Refer to the freezema<sup>TM</sup> antifreeze Installation Guide for further details, including design parameters and listing limitations.



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