

ANSUL-A™ MUNICIPAL “CLASS A” FIRE CONTROL CONCENTRATE 30 °F (–1.1 °C) to 120 °F (49 °C)

Data/Specifications



DESCRIPTION

ANSUL-A™ Municipal “Class A” Fire Control Concentrate is formulated using fluorine-free hydrocarbon surfactants to perform on Class A combustible materials typical in municipal applications. The ANSUL-A concentrate is designed for use between 0.1% and 1.0% in standard proportioning equipment.

TYPICAL PHYSIOCHEMICAL PROPERTIES AT 77 °F (25 °C)

Appearance	Clear Light Yellow Liquid
Density	1.01 g/ml $\pm$ 0.01
pH	7.0 – 8.5
Refractive Index	1.3486 $\pm$ 0.0025
Viscosity @ 25 °C	1.7 $\pm$ 0.5 centistokes
Slush Point	28 °F (–2.2 °C)
Surface Tension	
0.1% ANSUL-A solution	39.5 $\pm$ 0.8 dynes/cm
0.6% ANSUL-A solution	30.2 $\pm$ 0.8 dynes/cm
1.0% ANSUL-A solution	28.9 $\pm$ 0.8 dynes/cm

APPLICATION

ANSUL-A Municipal “Class A” Fire Control Concentrate is intended for use on Class A combustible fires. Its low surface tension demonstrates the excellent wetting characteristics needed to efficiently combat Class A fires. The ANSUL-A concentrate is not suitable for use on any fuel with an appreciable water solubility (polar solvents) such as methyl and ethyl alcohol, acetone, and methyl ethyl ketone; it is not intended for use on Class B hydrocarbons. This Compressed Air Foam System (CAFS) compatible concentrate can be used with both aspirating and non-aspirating discharge devices because of the low energy required to make it foam. ANSUL-A concentrate can also be used with dry chemical extinguishing agents without any regard to the order of application.

PERFORMANCE

As with most conventional foam making equipment, the expansion of ANSUL-A Municipal “Class A” Fire Control Concentrate will vary depending on the performance characteristics of the equipment and the type of water (i.e., fresh, salt, or hard) at the correct dilution. Aspirating discharge devices produce expansion ratios from 6:1 to 10:1 depending primarily on the type of aspirating device and flow rate. In general, the higher the flow rate, the higher the expansion ratio. Non-aspirating devices such as hand line water fog/stream nozzles will give expansion ratios of 2:1 to 4:1.

ANSUL-A concentrate can be proportioned easily at the correct dilution using most conventional equipment such as:

1. Compressed Air Foam Systems (CAFS)
2. Balanced pressure and in-line balanced pressure pumped proportioning equipment
3. Balanced pressure bladder tank type proportioners
4. Around-the-pump type proportioners
5. Fixed or portable (in-line) venturi type proportioners
6. Hand line nozzles with fixed induction/pickup tubes

The minimum and maximum usable temperatures for the ANSUL-A concentrate in this equipment is 30 °F (–1.1 °C) to 120 °F (49 °C).



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STORAGE/SHELF LIFE

When stored in the packaging supplied (polyethylene drums or pails) or in equipment recommended by the manufacturer as part of the foam system and within the temperature limits specified, the shelf life of ANSUL-A Municipal “Class A” Fire Control Concentrate is about 20-25 years. The factors affecting shelf life and stability for ANSUL-A concentrate are discussed in detail in ANSUL® Technical Bulletin No. 54. If the product is frozen during storage or transportation, thawing will return the product to a usable state. Mixing after thawing is desirable so as to assure a homogenous solution.

COMPATIBILITY

Refer to Ansul Technical Bulletin No. 48 for a more detailed discussion of compatibility.

Different types of foam concentrates (i.e., AFFF, protein base, etc.) should not be mixed under any circumstances.

INSPECTION

As with any fire extinguishing agent, ANSUL-A Municipal “Class A” Fire Control Concentrate should be inspected periodically, either in the concentrate or pre-mixed form. Please refer to the Field Inspection Manual (Ansul Part No. 31274) for detailed instructions on how to perform an inspection. An annual inspection is recommended unless unusual conditions of exposure occur, as described in Ansul Technical Bulletin No. 54. In such cases, ANSUL's recommendation should be sought.

ORDERING INFORMATION

ANSUL-A Municipal "Class A" Fire Control Concentrate is available in:

▶ Part No. 433442	5 gallon pail
Part No. 433443	55 gallon drum
Part No. 433558	265 gallon tote
▶ Part No. 433441	Bulk (contact ANSUL about domestic truck-load delivery)

Shipping Weight:

- 5 gal (19 L) pail – 45 lb (20.4 kg)
- 55 gal (208 L) drum – 495 lb (224.5 kg)
- ▶ 265 gal (1000 L) tote – 2465 lb (1118 kg)

Cube:

- 5 gal (19 L) pail – 1.25 ft³ (0.04 m³)
- 55 gal (208 L) drum – 11.83 ft³ (0.34 m³)
- ▶ 265 gal (1000 L) tote – 50.05 ft³ (1.42 m³)

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