ANSUL® 3% Protein Foam Concentrate is formulated from hydrolyzed protein, foam stabilizers (metal salts), bactericide, corrosion inhibitors, freezing point depressants and solvents. It is transported and stored as a concentrate to provide ease of use and considerable savings in weight and space.

It is intended for use as a 3% proportioned solution either in fresh, salt or hard water. The correct proportioning ratio is 3 parts of concentrate to 97 parts of water.

Two fire extinguishing mechanisms are in effect when using ANSUL 3% Protein Foam. First, a foam blanket is formed which works to prevent the release of fuel vapor. Second, the water content of the foam provides a cooling effect.

ANSUL 3% Protein Foam Concentrate is intended for use on Class B hydrocarbon fuels having low water solubility such as various crude oils, gasolines, diesel fuels, aviation fuels, etc. It is not suitable for use on fuels having appreciable water solubility (polar solvents), i.e., methyl and ethyl alcohol, acetone and methyl ethyl ketone. This concentrate can be used only with air aspirating type discharge devices.

Its wetting characteristics make it useful in combating Class A fires as well. It can also be used with foam compatible dry chemical extinguishing agents without regard to the order of application, to provide even greater fire protection capability.

Fire Performance – The fire performance of ANSUL 3% Protein Foam Concentrate is measured against specifications and standards such as Underwriters Laboratories Standard UL 162, latest edition.

Foaming Properties – When used with fresh or salt water or water of any hardness at the correct dilution and with most conventional foam making equipment, the expansion ratio will vary depending on the performance characteristics of the equipment. Air aspirating discharge devices produce expansion ratios from 8 to 1 to 12 to 1 depending primarily on type and flow rate. In general, the higher the flow rate the higher the expansion ratio. Thus, monitors and foam chambers normally produce higher expansion ratios than foam water sprinkler heads and hand held type nozzles.

Typical expansion ratios for foam chambers are in the range of 5 to 1 to 7 to 1, and for foam water sprinkler heads in the range of 3 to 1 to 6 to 1.
ANSUL 3% Protein Foam Concentrate is approved, qualified under, listed or meets the requirements of the following specifications and standards:

- Underwriters Laboratories, Inc. – UL Standard 162
  1. Foam Quality Test
  2. Class B Hydrocarbon Fuel Fire Tests
  3. Foam Identification Tests
  4. Test of shipping containers
  5. Class B Hydrocarbon fuel fire tests using foam water sprinkler (both upright and pendent approvals)

It is impractical for ANSUL to list its 3% Protein Foam Concentrate with every piece of UL listed hardware. Moreover there are numerous foam hardware components without UL listings that cannot be listed for use with any protein foam agent.

Many unlisted pieces of foam hardware should be similar to those listed. However, on installations where ANSUL 3% foam concentrate may be used with hardware components of significantly different types than those tested, contact ANSUL for recommendations.

### ORDERING INFORMATION

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
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<tbody>
<tr>
<td>73971</td>
<td>3% Protein Foam – 5 gallon</td>
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<tr>
<td>73970</td>
<td>3% Protein Foam – 55 gallon</td>
</tr>
</tbody>
</table>

Shipping Weight:
- 5 gal (19 L) pail – 51 lb (23.1 kg)
- 55 gal (208 L) drum – 555 lb (251.7 kg)

Cube:
- 5 gal (19 L) pail – 1.08 ft³ (0.0305 m³)
- 55 gal (208 L) drum – 11.33 ft³ (0.3208 m³)