

FOAM

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FIREFIGHTER TRAINING

Firefighter Daily Quick Drills - Easy Access to Training Topics

Common Terms Associated with Foam

References:

Delmar Handbook 3rd edition, pages 338-340
J&B Fundamentals 2nd edition, pages 521-522
IFSTA Essentials 5th edition, page 734

NFPA 1001, 2008 JPR
6.3.1

Foam concentrate — Raw foam liquid as it rests in its storage container before the introduction of water and air

Foam proportioner — Device that introduces foam concentrate into the water stream to make the foam solution

Foam solution — Mixture of foam concentrate and water before the introduction of air

Foam (finished foam) — Completed product after air is introduced into the foam solution

Proportioning — Mixing concentrate with water by means of a proportioning system

Aeration — Mixing solution with air by means of the nozzle or expansion device

Foam expansion — Increase in volume of a foam solution when it is aerated

Expansion ratio — Ratio of air to solution. Example: If foam production yields 20 units of foam for every unit of foam solution, then the foam is being produced at a 20:1 expansion ratio.