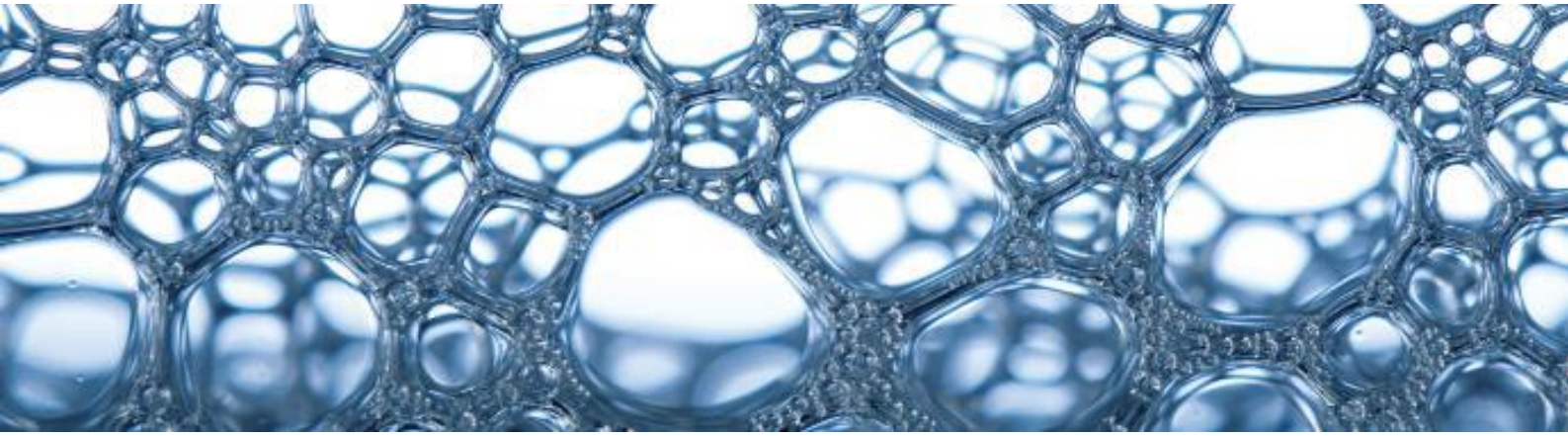
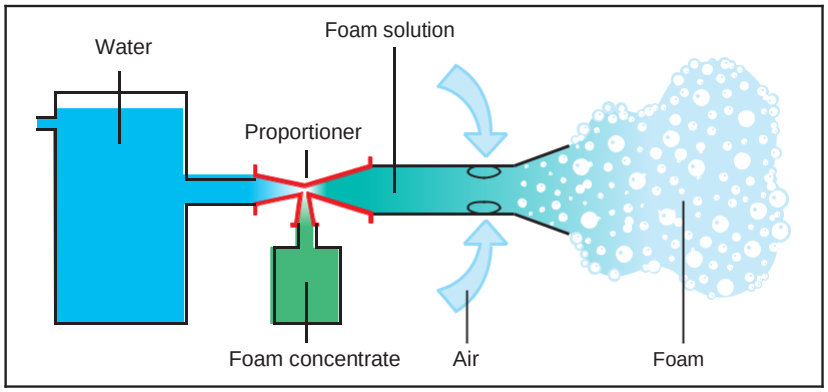
CANATECH
FIRE PROTECTION

Foam System



What is Foam?

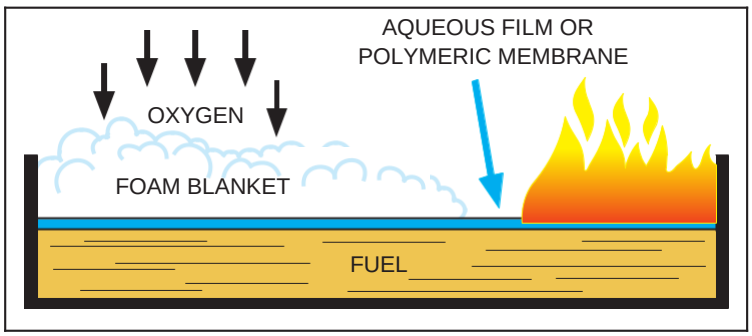
Foam is a collection of air- filled bubbles. Foam is made up of three ingredients; water, foam concentrate and air. Unlike cleaning foams, fire-fighting foam is resistant to fire. Many firefighting foams also contain chemicals like Fluorine, which prevent combustion. Water is mixed with a foam concentrate (proportioned) to form a foam solution. Foam is aerated by forcing foam solution through foam making equipment (i.e. discharge devices).



How do Foam agents work?

Foam solution extinguish fire utilising five main assets:

1. Unlike water, foam is less dense than the burning liquid or combustible material; therefore it floats and creates a continuous foam layer.
2. This foam layer prevents air (oxygen) from reaching the liquid and smothers the fire.
3. Containing the fire in this manner ensures that no vapors are able to escape. If able these vapors would re-ignite upon contact with the atmosphere due to re-oxygenisation.
4. Due to the high water content in the foam, the fuel surface rapidly begins to cool resulting in a less volatile situation.
5. Fluorine in some foam terminates the combustion chain reaction thus preventing any potential for further combustion.



Product Specification

Canatech Upright & Pendent Foam Water Sprinkler

Material: Brass

Thread Size: 1/2”

K-Factor: k=3.0

Working pressure: 16 Bar

Canatech Foam Water Spray Sprinkler

Sprinkler finish: Chrome

Thread Size: 1/2” - 3/4” - 1”

K-Factor: k=3.0, k=1.7, k=2.4

Canatech Foam Chamber

Flow rate: 72 to 4032 LPM

Working pressure: 2.8 to 7 Bar

Size: DN25-1”, DN40-1 1/2”, DN50-2”, DN65-2 1/2”, DN80-3”, DN100-4”, DN150-6” Flange connection: ANSI B16.5 Class 150#

Canatech Fixed Inline Inductor

Material: Carbon Steel

Flow at 7 bar: 75 to 2700 LPM

Flanged connection: ANSI B16.5 Class 150#

Size: DN50-2”, DN65-2 1/2”, DN80-3”, DN100-4”, DN150-6”

Canatech Foam Concentrate Storage Tank

Material: Carbon Steel with internal lining

Storage capacity: 500 to 12000 Ltrs.

Canatech Variable Inline Inductor

Size: DN65-2 1/2”

Material: Aluminium

Flow at 7 bar: 225 to 450 LPM

Vertical type

Horizontal type

Canatech Bladder Tank Proportioning

Tank mounting type: Vertical or Horizontal

Concentrate storage capacity:

100 Gallon/379 Ltrs To 1500 Gallon/5681 Ltrs

Vessel construction: Carbon Steel as per ASME

Working pressure: 12 Bar

Finish: Red color

Product Specification

Portable Fixed

Canatech Medium Expansion Foam Nozzle

Material: AL. & S.Steel

Size: DN50-2", DN65-2 1/2"

Flow at 3.5 bar: 280 to 645 LPM

Canatech Foam Nozzle

Type: Straight stream

Material: Aluminium alloy

Flow rate: 560 LPM at 7 Bar

Connection: Quick 65 female thread

Canatech Hydro Foam Nozzles

Material: Bronze

Working pressure: 12 Bar

Flow up to 7570 LPM (2000 GPM)

Swivel BSP inlet base or flanged end

Size: DN65-2 1/2", DN80-3", DN100-4", DN150-6"

Canatech Foam Concentrate

AFFF Concentration: 3%, 6%

Pour Point: Flows at 0°C

pH @ 20°C (68°F): 8.0 ± 1.0

Standard: UL Listed

Packaging: 20 Ltrs or 200 Ltrs

Canatech Mobile Foam Unit

Capacity: 120 Ltrs.

Working Pressure: 7 Bar

Min. Discharge Time: 9 Mins. @ 7 Bar

Flow Rate: 210 Litre/Min @ 7 Bar

Discharge Range: 18m @ 7 Bar

Tank Material: Fibre Glass

Trolley Material: Mild Steel

Water Supply Hose: 65mm x 20m

Foam Discharge Hose: 40mm x 15m

Canatech Foam Concentrate Tank

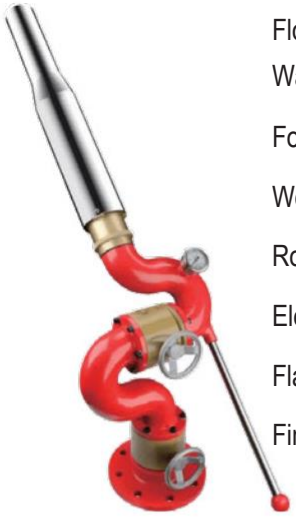
Capacity: 100 to 1000 Ltrs.

Material: SS or Carbon Steel

Proportioner: Aluminium

Finish: Yellow or Red

Product Specification



Canatech Water/Foam Monitor

Flow: 24/32/40/48/64 L/S
Water Range: ≥40/45/50/55/60 m
Foam Range: ≥45/50/55/60/65 m
Working Pressure: 10 bar
Rotation: 360 Degree
Elevation: +70 to -70 Degree
Flange Inlet: DN80-3" or DN100-4"
Finish: Externally powder coated

Canatech Water/Foam Monitor

Flow: 40/48/64/80 L/S
Water Range: ≥50/55/60/70 m
Foam Range: ≥55/60/65/75 m
Working Pressure: 12 bar
Rotation: 360 Degree
Elevation: +70 to -70 Degree
Flange Inlet: DN80-3" or DN100-4"
Finish: Externally powder coated

Canatech Fix & Variable Flow

Size: DN100-4"
Material: Stainless steel
Working Pressure: 12 bar
Monitor rotation: 360 Degree
Monitor elevation: 90 Deg. above horizontal,
65 Deg. below horizontal
Fixed flow with nozzle model H4 (500/750/1000 GPM)
Variable flow with nozzle model H4V (500/750/1000 GPM)

Canatech Fix Monitor

Material: Carbon Steel
Working Pressure: 12 bar
Vertical Movement: 140 Degree
Horizontal Movement: 360 Degree
Flange Inlet: DN65-2 1/2", DN80-3", DN100-4"

Canatech Deluge Valve

Installation: Vertical
Material: Ductile Iron
Working Pressure: 16 bar
Connection: Flange x Flange
Finish color: External Powder Coated
Size: DN80-3", DN100-4", DN125-5",
DN150-6", DN200-8"

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