

## IS 2097: 2024

### ‘Low expansion foam making Branch pipe and Portable foam inductor’

Low expansion foam making branch pipes provide the means for production of mechanical (secondary aspirated) foam, which is used for fighting fires in flammable liquids. Similarly, mechanical foam is also used to cover flammable liquid spills to prevent ignition. These branches work on self-aspirating principle in which air is induced into the stream of water-foam solution by the suction effect created at the water head in the branch during discharge of solution under pressure. Portable foam inductors are connected between the water source and foam branch and used for inducting foam concentrate into the water stream using venturi principle. Inductors are used where it is not operationally feasible or dangerous to induct the foam concentrate at the foam branch. IS 2097: 2024 outlines the requirements for **low expansion foam-making branch pipes** and **portable foam inductors**, which are essential firefighting equipment. These devices are commonly used in industrial settings, fire stations, and other places where fire safety is a priority. Three capacities (based on nominal flow capacity) of foam making branches and portable foam inductors are covered namely FB 5X (225 lpm), FB 10X (450 lpm), and FB 20X (900 lpm).

IS 2097 talks about material and performance requirements of construction of Branch pipes and portable foam inductor. Cu or SS or Al alloy is used for making this based upon application.

Branch pipes and portable foam inductor are tested for discharge capacity, its working range of spray etc. at a given inlet pressure.

Proper marking is equally important for better selection of Branch pipes based upon application usage. This so that details are also mentioned in standard.

The standard thus ensures that the device meets safety, durability, and performance requirements, offering reliable fire protection. They are easy to handle and maintain, making them effective tools for tackling dangerous fires involving flammable liquids.

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