

## COMPARISON OF THE FOAMFATALE FIRE SUPPRESSION TECHNOLOGY TO THE TRADITIONAL TANK FIRE EXTINGUISHING TECHNOLOGIES

DESCRIPTION	FIXED, SEMI-FIXED, MOBILE	FOAMFATALE SYSTEM
System type	Single flow-through	One-shot and flow-through
Foam application device	Foam chamber, foam pourer, monitor	Continuous Linear Nozzle (foam ring)
Foam application pattern	Point-like	Curtain-like along the inner tank shell (oxygen excluded)
Foam blanketing pattern	Radial diverging blanketing	Inward center blanketing
Fire penetration	Decreasing momentum	Increasing super high momentum
Inner tank shell cooling	n/a	Very effective
Wall effect	NFPA 11, A.5.3.4.3: Foam can fail to seal against the tank shell as a result of prolonged free burning to agent discharge.	Does not exist
Cone roof tank initial explosion	NFPA 11, A.5.2.6.1: Foam chamber disruption often arises as a result of an initial tank explosion or the presence of fire surrounding the tank.	The foam ring acts as a reinforcement frame
OTFR tank full surface fire protection	NFPA 11, 5.3: No recommendation	Recommended in max. 3 minutes
Tank types	Cone roof and floating roof	Cone roof and floating roof
Foam application rates	4,1 l/min/m <sup>2</sup> – 12,2 l/min/m <sup>2</sup>	12,8 l/min/m <sup>2</sup> – 34,3 l/min/m <sup>2</sup>
Recommended application time	Minimum 55 minutes (gasoline)	Maximum 2 minutes up to 60 m Maximum 3 minutes over 60 m
Preparation time from alarm signal	From 10 minutes to several hours	10 seconds
Extinguishing time	From 10 minutes to hours/days	Less than 3 minutes
Life and property loss	Severe losses	Minor stored material loss only
Foam concentrate (3%) for 25 m dia tank	Type II 3,3 m <sup>3</sup> , Type III 6,2 m <sup>3</sup>	0,37 m <sup>3</sup>
Reliability	Low	Very high
Maintenance	High	Low-to-zero
Operation costs	High	Low
Manpower	Needed	Not needed
Fire water pump, water supply	Needed	Not needed, no seawater used



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