Water mist systems for the protection of storage areas of burnable liquids:

Fire tests and case study

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• Storage Areas for burnable liquids with low flash point

• Pallet or barrel storage up to 5.5 m height

• Application is full scale fire tested (based on CEN TS 14972)

• A3F injection for prevention of re-ignition

• VdS approved system
Fire Scenarios

- Realistic storage mock up
- Open and hidden pool fires up to 4 m²
- Flowing fire from top to ground level
- Spray fire
4 m² open pool fire

Flowing fire and 2 m² hidden pool fire
Test results

• All fires extinguished at latest after 15 Minutes (but in most tests much faster)

• No re-ignition (for at least 3 min after fire extinguishment and stop of the WMS)

• Temperatures inside the barrels < 40 °C

• Average Temperatures below 100 °C
Example: 4 m² pool fire
Case study: Symrise Germany

Storage Area protected by a high pressure water mist system

2 x 120 l pump system (Fogtec) with A3F injection
• Storage area for burnable liquids Class AI

• 2 x 120 l /min System with A3F Injection

• Open System with external detection (flame and smoke) for protection of storage areas

• VdS approved installation