

over **30** years of
experience
since 1990

CERTIFIED
SAFETY
PASSION

SHTE 

SAFETY HI-TECH EUROPE

Safety Hi-Tech Europe SRL (SHTE®) is a customer-focused supplier of advanced solutions for fire suppression and presents itself as one of the leading experts in “in-kind” alternative technologies to Halons for Clean Agent Fire Protection. With more than 30 years of market presence and experience, SHTE’s Fire Extinguishing Agents and Fire Suppression Systems gained the acceptance and the recognition from the leading international environmental and approval authorities.

SHTE distribute its UL Listed Clean Agent Fire Suppression Systems and UL Recognized Approved Fire Suppressants through a network of authorized distributors with UL (Underwriters Laboratories) Audited Alternate Manufacturing Locations (UL AML).



Certified to EN 12094-4, -8, -13
LPCB Ref. No. 969a



ISO 9001
Certificate n° 452235 QM15



LISTED
GAQF Ex6264
GAR22.Ex5694

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SHTE'S MISSION

SHTE is committed to supply Products and Systems that comply to the highest environmental and technical standards to meet the Customers' total satisfaction. SHTE has adopted an integrated management system that fulfills the economic and social requirements of all the stakeholders through a “Total Quality Vision” that includes all the key performances of the company: product safety, work safety, overall environmental impact, external information, and ethics.

SHTE has been continuously ISO 9001 certified, being the quality and safety of our products and systems a strict requirement. SHTE carries out inspections upon receiving raw materials and during the production processes. The properties of our extinguishing agents are tested through chemical analysis and the quality of the extinguishing system components is demonstrated by functional tests.

The performances of our products, system components and software programs used for system design are also certified by internationally recognized independent laboratories, thus ensuring that the complete system is reliable and safe.



APPLICATIONS

SHTE® 125, SHTE® 227 and the SHTE® 1230 fire extinguishing systems are recommended for facilities and areas that have a high fire risk, high value property and high cost of downtime. All these extinguishing agents are non-conductive, non-corrosive and approved for use in occupied spaces by the US EPA.

Neither agents will harm sensitive electronics or equipment nor do they have a post discharge residue to clean up. Our systems are custom designed for each application, ensuring the most effective and efficient fire protection possible for your specific facility.

SHTE'S STRENGTHS

- SHTE is the only European company participating to the NFPA 2001 Technical Committee. SHTE has also a representative in the Halon Technical Options Committee (HTOC).
- **Wide Product Range that includes system equipment for "high and low pressure" ratings.**
- **A sales record of about 8.000 tons of fire suppression agents sold by SHTE.**
- **A seasoned R&D Team with more than thirty years of experience in this business.**
- **A full line of systems approved in accordance with the US and EU regulations and fully accepted worldwide.**
- **A diversified customer network that includes major market players and reputed companies.**
- **SHTE's products have gained acceptance and recognition from leading worldwide environmental and technical authorities.**

SHTE'S NETWORK of Authorized Distributors (UL AML)

SHTE is currently present through a network of authorized distributors with UL Approved Alternate Manufacturing Locations (UL AML) in Middle East, North Africa, Africa, Asia, Southeast Asia and South America. Such locations are quarterly audited by UL and are located in:

Kuwait, UAE, Egypt, Kingdom of Saudi Arabia, Republic of South Africa, Bangladesh, India, Singapore, Malaysia, Argentina, and Qatar.

Distributors with UL AML are responsible/audited for filling, leak testing, nozzle drilling and applying the UL Mark on systems.

TYPICAL APPLICATIONS

- **Telecommunication facilities**
- **Control rooms**
- **Computer rooms**
- **Laboratories**
- **Museums**
- **Substations**
- **Machinery spaces**
- **Archives**
- **Turbines**
- **Energy storage**



SHTE'S PRODUCTS

UL/LPCB SHTE® 125

Engineered Clean Agent Fire Suppression Systems

SHTE® 125 is a UL Recognized Agent. SHTE® 125 25 and 42 bar systems use a wide selection of valves combined with seamless and welded cylinders ranging from 5 up to 240 LT that allows a great flexibility in the design of new installations and facilitate the retrofit of existing Halon 1301 fire protection systems. Such systems are available with UL Listing and CE Mark by LPCB UK according to EN 12094.

UL/LPCB/ SHTE® 227

Engineered Clean Agent Fire Suppression Systems

SHTE® 227 is a UL Recognized Agent. High (42 bar) and Low (25 bar) Pressure Engineered Systems using SHTE® 227 are UL Listed and use a wide selection of valves combined with seamless and welded cylinders ranging from 5 up to 240 LT. Such systems are also available with CE Mark by LPCB UK according to EN 12094.



UL SHTE® 1230

Engineered Clean Agent Fire Suppression Systems

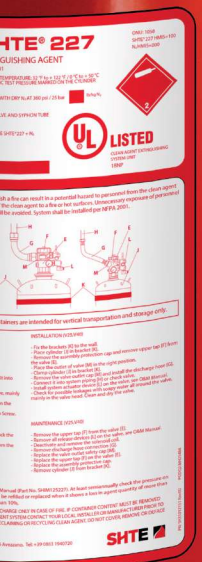
SHTE® 1230 is a UL Recognized Agent. SHTE® 1230 Engineered Systems are UL Listed and use a wide selection of cylinder assemblies ranging from 5 up to 240 LT. The unique availability of multiple working pressures (25, 42 and 60 bar) allows a great flexibility in the system design. The SHTE® 1230 agent is the most environmentally sustainable halocarbon clean agent available in the market today.



They rely on us every day...



الحميضي المحدودة
Al-Homaizi Limited



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SHTE 

FIRE SUPPRESSION SYSTEMS

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**Valve Cylinder Assemblies
and Accessories**

CATALOGUE

**CERTIFIED
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FIRE EXTINGUISHING SYSTEMS

SHTE® 125 - SHTE® 227 - SHTE® 1230



42bar **V20**

42bar **V25**

42bar **V40**
60bar **V40**

25bar **V65**



Certified to EN 12094-4, -8, -13
LPCB Ref. No. 969a



GAQF Ex6264
GAR22 Ex6694

V20

Valve Cylinder Assemblies @42bar

AGENT	CYL. SIZE (L)	ASSEMBLY HEIGHT [mm]	CYL. EXT. Ø [mm]	PART NUMBER
SHTE® 125	5	615	140	SH70025410UL
	13,4	1250	140	SH70025409UL
	26,8	1000	229	SH70025408UL
SHTE® 227	5	615	140	SH70027410UL
	13,4	1250	140	SH70027409UL
	26,8	1000	229	SH72527408UL
SHTE® 1230	5	615	140	SHFKBCA005UL
	13,4	1250	140	SHFKBCA013UL
	26,8	1000	229	SHFKBCA026UL



V25

Valve Cylinder Assemblies @42bar

AGENT	CYL. SIZE (L)	ASSEMBLY HEIGHT [mm]	CYL. EXT. Ø [mm]	PART NUMBER
SHTE® 125	40,2	1370	229	SH70025407UL
	67,5	1625	267	SH70025412UL
SHTE® 227	40,2	1370	229	SH70027407UL
	67,5	1625	267	SH70027412UL
SHTE® 1230	40,2	1370	229	SHFKBCA040UL
	67,5	1625	267	SHFKBCA067UL



V40

Valve Cylinder Assemblies @42bar

AGENT	CYL. SIZE (L)	ASSEMBLY HEIGHT [mm]	CYL. EXT. Ø [mm]	PART NUMBER
SHTE® 125	75	1785	267	SH70025405UL
	100	1460	358	SH70025404UL
	120	1680	358	SH70025403UL
SHTE® 227	75	1785	267	SH70027405UL
	100	1460	358	SH70027404UL
	120	1680	358	SH70027403UL
SHTE® 1230	75	1785	267	SHFKBCA075UL
	100	1460	358	SHFKBCA100UL
	120	1680	358	SHFKBCA120UL
	140*	1880	360	SHFKBCA140UL
	160*	1980	360	SHFKBCA160UL
	* @60bar	180*	2285	360



V65

Valve Cylinder Assemblies @25bar

AGENT	CYL. SIZE (L)	ASSEMBLY HEIGHT [mm]	CYL. EXT. Ø [mm]	PART NUMBER
SHTE® 125	175	1540	445	SH70025414UL
	240	1945	445	SH70025415UL
SHTE® 227	175	1540	445	SH70027414UL
	240	1945	445	SH70027415UL
SHTE® 1230	175	1540	445	SHFKBCA175UL
	240	1945	445	SHFKBCA240UL



ACCESSORIES

• CHECK VALVES



• NOZZLES



• ACTUATION



• HOSES



SHTE'S ESTINGUISHANTS

SHTE® 125

• SHTE 125 is identified in the NFPA 2001 Standard on Clean Agent Fire Extinguishing Systems as HFC-125. At the normal design concentrations, it can be safely used to protect normally occupied areas. SHTE 125 does not require the clean-up of the protected enclosure after use. It is electrically non-conductive media; it can therefore be used to protect electronic and delicate equipment. The low design quantity and the availability of seamless cylinders pressurized at 42 bars make the retrofit of Halon 1301 systems possible in many situations.

SHTE® 227

• SHTE 227 is identified in the NFPA 2001 Standard on Clean Agent Fire Extinguishing Systems as HFC-227ea. At the normal design concentrations, it can be safely used to protect normally occupied areas. SHTE 227 does not require the clean-up of the protected enclosure after use. It is electrically non-conductive media; it can therefore be used to protect electronic and delicate equipment. It has been used for decades and is by far the most widely used and universally accepted halocarbon agent.

SHTE® 1230

• SHTE 1230 is identified in the NFPA 2001 Standard on Clean Agent Fire Extinguishing Systems as FK 5-1-12. At the normal design concentrations, it can be safely used to protect normally occupied areas. SHTE 1230 does not require the clean-up of the protected enclosure after use. It is electrically non-conductive media; it can therefore be used to protect electronic and delicate equipment. With a 1-day atmospheric lifetime and nearly zero Global Warming Potential, SHTE 1230 is the most sustainable halocarbon agent available in the market today.

TYPICAL APPLICATIONS

- **Telecommunication facilities**
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- **Museums**
- **Substations**
- **Machinery spaces**
- **Archives**
- **Turbines**
- **Energy storage**



SHTE'S NETWORK

All our world distributors are UL Approved/Audited "Alternate Manufacturing Locations (AML)" for UL File EX 6264 that covers all SHTE® Clean Agent Fire Suppression Systems. Such Companies are responsible for filling, leak testing, nozzle drilling and applying the UL Mark (cylinder label) on our systems.

We supply them with the empty systems (cylinder assemblies and accessories like actuators, nozzles, hoses, check valves and other small components) and agents in bulk tanks. They always keep stocks of our systems and fire suppressants. UL perform quarterly inspections at their sites, check filling logs, calibration certificates of filling equipment, make sure a leak test with a UL Recognized Leak Detector is performed on every cylinder, and that they follow other technical procedures as per UL requirements.

Our world distributors have the UL Listed Flow Calculation Program and Manuals and have been extensively trained on their use to be completely independent from SHTE® Italy.





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NETWORK OF TRAINED DISTRIBUTORS

Our world distributors have been extensively trained by our Technical Team on every aspect of the system design.

Together with a physical training at the plant, we provide them with all the “tools” that are necessary to assess the risk, develop the best solution for any specific scenarios and calculate quantity of agent, size of pipes, nozzle drills in order to make sure that in case of fire the system will protect lives and assets as quickly and efficiently as possible.

We provide them with UL Listed Design and Installation/Maintenance Manuals and Flow Calculation Programs whose accuracy has been third party validated by UL. We try to make our world distributors as independent as possible, but at the same time our Technical Team are always ready to give support for any specific risks that needs a closer look.



SHTE 

FIRE SUPPRESSION SYSTEMS

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