Wolf® A-TL44C/A-TL45C Ex-Proof Turbolite



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Wolf A-TL44C and A-TL45C "Turbolite" are **air-powered (pneumatic)** ex-proof floodlights designed for hazardous areas where electrical power is unavailable or poses a high risk. Offered by **IST Safety Ltd, the official distributor of Wolf**, this unique series generates light via an integrated generator powered by compressed air.

Certified for Zone 1/21, Turbolite projectors operate without the need for external cables or batteries, making them one of the safest lighting solutions by completely eliminating the risk of electrical arcs. With their aluminum and brass alloy bodies, high impact resistance, and IP66 ingress protection, they are indispensable for heavy industrial operations such as grit blasting, painting, and tank cleaning.

Usage Areas

- **Shot Blasting and Painting:** Operations where dust and flammable vapor risks are highest and spark-free equipment is mandatory.
- **Oil & Gas:** Internal cleaning and maintenance of crude oil tanks in refineries where electrical infrastructure is missing.
- **Marine:** Safe illumination in ship holds and tanks using onboard compressed air lines.
- **Heavy Industry:** Critical maintenance areas equipped with pneumatic lines as a safeguard against power failures.

ATEX, IECEx, and UKEX certified ATEX Turbolite is a high-powered compressed air-driven lamp designed for use in potentially explosive atmospheres. It complies with EN IEC 60079-0 and EN 60079-33 standards for ‘explosion prevention and protection’ in Europe, providing a safe, effective, and efficient alternative to mains and low-powered lighting solutions.To operate the lamp, clean, dry compressed air and an antistatic air hose are used.

Certification

- **Safety Certified:** ATEX, IECEx, and UKEX certified for Zones 1 and 2 Hazardous Areas.
- **CE Marked:** Compliant with ATEX Directive for safe use in hazardous zones.
- **Dust Protection:** Ignition protected for Zones 21 and 22 with remote exhaust.
- **Underwater Use:** Once pressurized, suitable for underwater applications

Technical Specifications:

- **Standard Bulb:** 6000 lumen long-life bulb; 9000 lumen high-output option available.
- **Power:** 250 watt halogen filament bulb.
- **Beam Options:** 360° bay or floodlight.
- **Construction:** Lightweight aluminum (non-sparking grade), nickel-plated for corrosion resistance.
- **Portability:** Compact design for easy handling and transport.
- **Compressed Air Operation:** Ideal for hazardous environments lacking electrical power; perfect for marine and tank cleaning where compressed air is available.
- **Reliability:** Ensuring decades of reliability.
- **Particle Trap:** Fitted with a stainless steel particle trap/exhaust silencer.
- **Accessories:** Comprehensive range available, including options for piping exhaust air into safe areas for dust applications, enabling near-silent operation.
- **Safety Advantage:** Eliminates risks associated with trailing cables, providing a safe alternative to mains and low voltage products.

Warranty and Technical Support

- **Warranty:** 2-year manufacturer's warranty.
- **Official Support:** Original spare parts and professional technical service are provided through IST Safety Ltd, the official distributor of Wolf in Turkey.

Standards

Ex-Proof (ATEX)

IECEx

CE 0598

TECHNICAL DETAILS

ATEX TURBOLITE			
PRODUCT REFERENCE		**A-TL-44C**	**A-TL45C**
PRODUCT DESCRIPTION		Baylight and Floodlight	
CODE	**ATEX**	II 2 G D Ex sb IIC T4 Gb Ex sb IIIC T135°C Db	
APPARATUS STANDARDS		EN IEC 60079-0:2018 and EN 60079-33:2012	
TYPE OF PROTECTION		Ex sb	
AREA OF CLASSIFICATION (GAS)		Zones 1 and 2, Gas Groups IIA, IIB, IIC	
TEMPERATURE CLASS (GAS)		T4	
AREA OF CLASSIFICATION (DUST)		Zones 21 and 22	
MAX. SURFACE TEMP. (DUST)		T135°C	
AMBIENT TEMPERATURE		-15°C to +55°C	-20°C to +55°C
CERTIFICATE	**ATEX**	CML 22ATEX9542X CML 22UKEX9543X IECEx CML 22.0083X	
ENCLOSURE		Aluminium	
LENS		Ball glass and plastic protective dome	Toughened Glass (10mm)
BEAM TYPE		All-around 360° Illumination	Flood

LIGHT SOURCE	**PART CODE**	A-129 (6000 lumen standard bulb) A-159 (9000 lumen high output bulb) can be ordered as an alternative	
	TYPE	Halogen Filled Filament Bulb	
	VOLTS	24v	
	WATTS	250w	
	OUTPUT	6000 lm / 9000 lm	
	LIFE	2000 hrs / 200 hrs	
POWER SOURCE	**TYPE**	Compressed Air Driven Turbo-alternator	
	AIR PRESSURE	5.0-8.0 bar	
	CONSUMPTION	0.75m^3/min	
INGRESS PROTECTION		IP66 (when running) Once pressurised may be used underwater. When using under water, always start the lamp before submerging and ensure lamp is running until removed from water, an additional accessory must be fitted allow an exhaust hose to be fitted to either have the exhaust air away from the lamps or piped to the surface. Depth of use limitations to be considered regarding water pressure.	
WEIGHT		4.4kg	5.3kg

What is ATEX Lighting?

What is ATEX and what does exproof mean? The **ATEX directive** is a set of European Union standards that define the safety requirements for equipment used in hazardous areas with explosive atmospheres. **Exproof** (Explosion-proof) refers to protection methods designed to prevent explosions by inhibiting the formation of sparks or electrical arcs in environments containing flammable gases, dust, or vapors. To ensure life and property safety in industrial facilities, the use of **ATEX-certified exproof devices** is a legal requirement.

What is ATEX Zone Classification?

ATEX Zone coding is a technical classification based on the frequency and duration of the occurrence of an explosive atmosphere in a given area. While the terms **Zone 0, 1, and 2** are used for risks originating from gas, vapor, and mist; the codes **Zone 20, 21, and 22** are designated for environments containing combustible dust. This classification is a legal standard that determines the required Equipment Protection Level (EPL) for devices. Accurate zone identification both optimizes operational costs and minimizes occupational safety risks.

What is IECEx Certification? How Does it Differ from ATEX?

In addition to ATEX certification, some projects may also require the IECEx Certification System (International Electrotechnical Commission Explosive Atmospheres System) certification. IECEx is an internationally recognized conformity assessment system for equipment intended for use in explosive atmospheres.

While ATEX is a European Union directive and a legal requirement within the European market, IECEx is a globally accepted certification system, widely preferred in regions such as the Middle East, Asia, and Australia.

From a technical perspective, both ATEX and IECEx are based on similar standards (e.g., the EN/IEC 60079 series). However:

- ATEX is a mandatory legal directive, whereas
- IECEx is an international certification system (voluntary, but widely required)

Therefore, while ATEX certification may be sufficient for certain projects, international tenders or critical industries such as oil & gas often prefer or require products that are certified to both ATEX and IECEx standards.

The appropriate certification should be determined based on the project location, client requirements, and application area.