Wolf® TS-35+ 2 batteries ,Straight ATEX, T4, LED

Article Number: 08010202

The Wolf TS-35 and TR-35 series are high-performance LED flashlights featuring **Zone 0** and **Mining (Group I M1)** certifications, specifically engineered for the most hazardous environments. Offered by **IST Safety Ltd, the official distributor of Wolf**, these models are optimized to provide maximum safety even in the most sensitive gas and dust atmospheres.

The product is available in straight-body (TS-35) and 90-degree right-angle (TR-35) versions. Utilizing an advanced LED optical system, it delivers a powerful 130-lumen wide beam while ensuring extended runtimes on just 4 AA batteries. With its high-impact resistant polymer body and IP67 waterproof rating, it stands as a professional solution for the toughest industrial and mining sites.

Usage Areas

- **Mining:** Underground coal mines, the most hazardous galleries with firedamp risks (M1 compliance).
- **Oil & Gas:** Zone 0 areas with continuous explosive atmosphere risks, refineries, and platforms.
- **Chemical Industry:** Production plants processing flammable liquids, dust, and gases.
- **Industrial Maintenance:** Confined space inspections, tank cleaning, and emergency response.

Certification & Compliance:

- Suitable for use in Zones 0,1 & 2, Zones 21 & 22 (dust)
- Dust Group IIIA,IIIB
- Gas Groups IIA, IIB,IIC
- Temperature Class: T4

- Complies with EN IEC 60079-0,EN 60079-11 standards
- EX I M1/II 1G2D Ex ia I Ma/IIC T4 Ga
  Ex ib IIIB T130°C Db

Technical Specifications:

- **Light Source:** Torch LED Module, Up to 130 lm
- **Light Source Output (Lumens):** Up to 130 lm
- **Brightness Duration:** Up to 14 hours to low power indicator ,Up to 17 hours total
- **Body Material/Lens:** Impact Resistant Thermoplastic, Chemical Resistant, Static Dissipative
- **Power Source:** It is powered by 2 x 1.5 V batteries
- **Ingress Protection:**IP67
- **Weight (inc. cells):** Approximately 0.475 kg

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 | LR Certificate

TECHNICAL DETAILS

ATEX SAFETY TORCH WITH LED

MODEL	TR-30+	TS-30+	TR-35+	TS-35+
PRODUCT DESCRIPTION	Primary Cell LED Right Angle or Straight Safety Torch			
	Right Angle Zone 1 & 21	Straight Zone 1 & 21	Right Angle Zone 0 & 21	Straight Zone 0 & 21

CODE		I M2/II 2GD Ex ib I Mb/IIC T4 Gb Ex ib IIIB T130°C Db	I M2/II 2GD Ex ib I Mb/IIC T4 Gb Ex ib IIIB T130°C Db	I M1/II 1G2D Ex ia I Ma/IIC T4 Ga Ex ib IIIB T130°C Db	I M1/II 1G2D Ex ia I Ma/IIC T4 Ga Ex ib IIIB T130°C Db
TYPE OF PROTECTION		'ib' intrinsic safety		'ia' intrinsic safety	
AREA OF CLASS(GAS)		Zones 1 & 2 Gas Groups IIA, IIB and IIC		Zones 0, 1 & 2 Gas Groups IIA, IIB and IIC	
TEMPERATURE CLASSIFICATION(GAS)		T4			
AREA OF CLASSIFICATION (DUST)		Zones 21 & 22 Dust Groups IIIA and IIIB		Zones 21 & 22 Dust Groups IIIA and IIIB	
MAX. SURFACE TEMP. (DUST)		T130°C			
AMBIENT TEMPERATURE (GAS)		-30° to +40 / 55°C	-20°C to +40 / 55°C	-30° to +40 / 55°C	-20° to +40 / 55°C
		Maximum ambient temperature is for use only with certain specified cells, as per product instructions.			
CERTIFICATE		ATEX Baseefa / 07ATEX0091X IECEx BAS 06.0089X / BAS21UKEX0437			
ENCLOSURE		Impact Resistant Thermoplastic, Chemical Resistant, Static Dissipative			
LENS		Toughened Glass 4mm			
BEAM TYPE		Medium Spot with Wide-Angle Flood of Fringe Light			
LIGHT SOURCE	**PART NO**	TP-300			
	POWER	Torch LED Module			

OUTPUT	Up to 130 lm				
LIFE	25,000hrs+ (Fitted for Life)				
POWER SOURCE	**PART NO.**	2 x H-20 (2 x LR-20 Cell suitable for 55° Maximum Ambient Temperature) (Batteries not supplied with torch)			
	TYPE	LR20 Primary Cells to IEC60086			
	POWER	2 x 1.5v			
LOW BATTERY INDICATOR	Yes				
LIGHT DURATION	Up to 14 hours to low power indicator Up to 17 hours total				
INGRESS PROTECTION	IP67				
WEIGHT(INC.CELLS)	0.500kg	0.475kg	0.500kg	0.475kg	

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.