Wolf® M-85 Midi LED Safety Torches

Article Number: 08011600

The Wolf M-85 is a **next-generation** midi flashlight developed for the most demanding environments, combining compact design with high light performance. Offered by **IST Safety Ltd, the official distributor of Wolf**, this model provides the ideal balance between the portability of the mini series and the power of larger lamps.

The product holds the highest level of protection certifications, including **I M1 (Mining)** and **Zone 0**, making it suitable for both underground mines and industrial explosive atmospheres. Its powerful 210-lumen LED light ensures long-range and clear visibility even in the darkest and most hazardous areas.

Certification & Compliance:

- Suitable for use in Zones 0, 1 & 2.
- Gas Groups: IIC
- T3/T4 temperature range

- Complies with EN IEC 60079-0, EN 60079-11 standards
- Ex I M1/II 1G 2D
  Ex ia I Ma
  Ex ia IIC T3/T4 Ga
  Ex in IIIB T200°C Db

Technical Specifications:

- **Light Source:**High-power LED type provides wide-angle fringe light
- **Light Source Output (Lumens):** 210 lm
- **Brightness/Battery Duration**: Up to 7 hours

- **Materials:** Impact Resistant Thermoplastic with a Polycarbonate Impact Resistant lens

- **Power Supply:**Operates with 4 x 1.5V alkaline AA batteries.
- **Weight(Inc. Cells) :**Approximately 190 grams.
- **Ingress Protection:** IP67

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

Product Reference/Description		M-85 Primary Cell ATEX Midi Safety Torch with LED
CODE	**ATEX**	II 1G Ex ia op is IIC T3/T4 Ga IP67 II 1D Ex ia op is IIIB T200°C Da
	MINING	I M1 Ex ia I Ma IP67
TYPE OF PROTECTION		'ia' Intrinsic Safety
AREA OF CLASS (GAS)		Zones 0, 1 & 2, Gas group IIC
TEMP. CLASSIFICATION (GAS)		T3/T4
AREA OF CLASSIFICATION (DUST)		20, 21 and 22, Dust Groups IIIA and IIIB
MAX SURFACE TEMP. (DUST)		200°C
AMBIENT TEMPERATURE		-40°C to +40°C
CERTIFICATE		Baseefa11ATEX0236X IECEx BAS 11.0116X

ENCLOSURE		Impact Resistant Thermoplastic with a Polycarbonate Impact Resistant lens
BEAM TYPE		Narrow Spot with Wide Angle Fringe Light
LIGHT SOURCE	**TYPE**	High Power LED
	OUTPUT	Up to 210 lm
	LIFE	25,000+ hours (fitted for life)
POWER SOURCE	**PART NUMBER**	TP-295 (4 x LR6 Cells)
	TYPE	LR6 Primary Cells, to IEC 60086, Alkaline AA
	VOLTS	4 x 1.5V
LIGHT DURATION		Up to 7 hours
INGRESS PROTECTION		IP67
WEIGHT (INC. CELLS)		0.190kg

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.