

Article Overview

A Syrian explosion-proof distribution box shell is typically made of high-quality steel or aluminum alloy, designed for hazardous environments, and compliant with international explosion-proof standards such as ATEX and IECEx.

Material and Construction

Explosion-proof distribution box shells are generally constructed from high-quality steel plates or aluminum alloy, providing mechanical strength and resistance to corrosion in harsh industrial environments . The shell is often welded and sealed to prevent gas or dust ingress, ensuring safety in Zone 1, Zone 2, and dust hazardous areas 20, 21, and 22 . Some designs include removable mounting plates for flexible installation of electrical components .

Functional Features

- o Explosion-proof components: The shell houses distribution boxes, junction boxes, buttons, transfer switches, and signal lights designed to prevent ignition of surrounding hazardous atmospheres .
- o Anti-static and ventilation features: Certain models include ventilation members, ash-removing members, and anti-static layers to reduce the risk of sparks and static discharge .
- o Sealing and protection: Rubber sealing rings, gaskets, and compression fittings ensure IP66-level protection, making the shell dust-tight and water-resistant .
- o Operational flexibility: Panels can be operated directly or after opening the door, with options to install voltmeters, ammeters, and signal lights as required .

Certifications and Standards

Syrian explosion-proof shells are designed to meet international safety standards, including:

- o ATEX EU certification for explosive atmospheres
- o IECEx international certification
- o Compliance with IIB, IIC, and DIPA20 classifications for gas and dust hazardous zones

Applications

These shells are suitable for chemical plants, petrochemical facilities, offshore platforms, refineries, oil and gas exploration, and other hazardous industrial environments . They are engineered to provide long-term durability, safety, and ease of maintenance in highly corrosive or explosive atmospheres.

Summary

A Syrian explosion-proof distribution box shell combines robust materials, anti-static and explosion-proof design, and international certifications to ensure safe power distribution in hazardous environments. It can be customized according to user specifications, including dimensions, panel operation type, and installed electrical components .

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Power Distribution panel box - Hazardous locations for explosive gas mixtures: Zone 1 and Zone 2. Explosive gas mixtures: Class

• Equipped with specialized hinge structure, which can prevent the flameproof joints from damage when opening and closing the box,

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An explosion-proof distribution box is a specialized enclosure designed to contain internal explosions and prevent the escape of

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