

EcoElectroCare Live Equipment Cleaning and Maintenance

EcoElectroCare live maintenance products offer safe operation and pollution reduction solutions for traditional infrastructure's old equipment. They provide live cleaning and protection for electric power, communications, electrical, energy storage equipment in operation, effectively giving the equipment a "bath" and "coating."



Cleaning "Bath"

Removes dust, static, and various corrosive ions from the equipment surface and interior, preventing their intrusion into the equipment.

Protection "Coating"

Forms a nano protective film on the equipment surface to isolate pollutants like dust, moisture, and salt, ensuring the equipment operates safely in a low-pollution state, enhancing operational efficiency, reducing energy consumption, and lowering carbon emissions.

Working Principle of EcoElectroCare Live Cleaning Products

1. Utilizes a pure physical method of nano molecule encapsulation combined with liquid pressure to efficiently remove dust, grease, carbon deposits, salt, moisture, metal dust, and other pollutants from the equipment while it is operational.
2. Using these products can extend equipment life, reduce equipment wear, and prevent short circuits, poor heat dissipation, and other issues.

Features of EcoElectroCare Live Cleaning Products

1. Safe and reliable, with high insulation and non-flammable or flame-retardant properties, significantly improving safety during operation.
2. Non-corrosive, neutral pH value, does not damage the equipment.
3. Colorless, odorless, non-toxic, and harmless, does not affect human health or the living environment.

Product Advantages

1. **Live Operation:** Maintenance can be performed anytime and anywhere, avoiding losses caused by power outages.
2. **Effective Maintenance:** Reduces energy consumption by 15%-20%, lowers carbon emissions, and improves maintenance efficiency.
3. **Lower Failure Rate:** Reduces equipment failure rates by 60%-70%, and decreases the chances of fires and explosions due to high-temperature aging by 30%.
4. **Extended Equipment Life:** Lowers operating temperature by 40-60%, extending equipment life by 20%.
5. **Reduced Equipment Pollution:** Prolongs the period of resistance to various pollutants.

Main Product Series

I. Live Cleaning Products: Utilize a pure physical method of nano molecule encapsulation combined with liquid pressure to efficiently remove dust, grease, carbon deposits, salt, moisture, metal dust, and other pollutants from the equipment while it is operational. Using these products can extend equipment life, reduce equipment wear, and prevent short circuits, poor heat dissipation, and other issues.

Flame-Retardant Equipment Cleaner: Suitable for high and low voltage distribution cabinets and control cabinets such as 10kV and below feeder cabinets, bus contact cabinets, voltage transformers, isolation cabinets, capacitor cabinets, metering cabinets, PLC, DCS, FCS, etc.

Advanced Network Communication Equipment Cleaner: Suitable for live cleaning and maintenance of communication equipment such as switching equipment, transmission equipment, base station equipment, program-controlled switches, as well as network equipment like servers, switches, routers, firewalls, disk arrays, minicomputers, PCs, etc.

High-Voltage Electrical Equipment Cleaner: Suitable for live cleaning of electrical equipment up to 500kV, such as high and low voltage distribution equipment, generators, transformers, disconnectors, PT, CT, circuit breakers, arresters, pillar insulators, transmission line insulators, etc.

High-Voltage Electrical Equipment Cleaner: Suitable for harsh working environments (high indoor temperatures, complex equipment) with equipment up to 10kV and below, including high and low voltage distribution cabinets, generators, transformers, power lines, circuit breakers, low voltage switch cabinets, distribution panels, switch boxes, control boxes, etc.

Composite Insulator Cleaner: Suitable for live cleaning and maintenance of composite insulators with voltage levels up to 220kV.

II. Live Protection Products: Made from nano materials, these can be used while the equipment is operational, featuring high insulation and strong hydrophobicity. They are safe, highly insulative, non-flammable, and significantly improve safety. After cleaning, these products and protection processes form a nano protective film that isolates pollutants like moisture, salt fog, dust, and oil, ensuring safe equipment operation. The protection lasts for 8-12 months (at ambient temperatures between -40°C and 50°C).

Equipment Protector: Suitable for high and low voltage distribution equipment, generators, transformers, disconnectors, PT, CT, circuit breakers, arresters, pillar insulators, transmission line insulators up to 35kV and below.

Advanced Network Communication Equipment Protector: Suitable for communication equipment such as switching equipment, transmission equipment, base station equipment, program-controlled switches, as well as network equipment like servers, switches, routers, firewalls, disk arrays, minicomputers, PCs, etc.

High-Voltage Electrical Equipment Protector: Suitable for power equipment such as generators, transformers, disconnectors, PT, CT, circuit breakers, arresters, pillar insulators, transmission line insulators.

High-Durability Electrical Equipment Protector: Suitable for the protection of high and low voltage distribution equipment, transformers, disconnectors, PT, CT, circuit breakers, arresters, pillar insulators, transmission line insulators.

III. Other Protective Products

Anti-Rust Lubricant: Used for loosening rust, preventing rust, lubricating, dehumidifying, and cleaning pneumatic tools, electric tools, hardware tools, gear bearings, locks, hinges, screws, nuts, vehicles, and other metal components (not for live operation).

High-Durability Three-Proofing Protector for Electronic Circuits: Used for the protection of electronic circuits in switching equipment, transmission equipment, base station equipment, program-controlled switches, servers, switches, routers, firewalls, disk arrays, minicomputers, PCs, etc.



Before cleaning and maintenance

After cleaning and maintenance



Before cleaning and maintenance

After cleaning and maintenance



Before cleaning and maintenance

After cleaning and maintenance