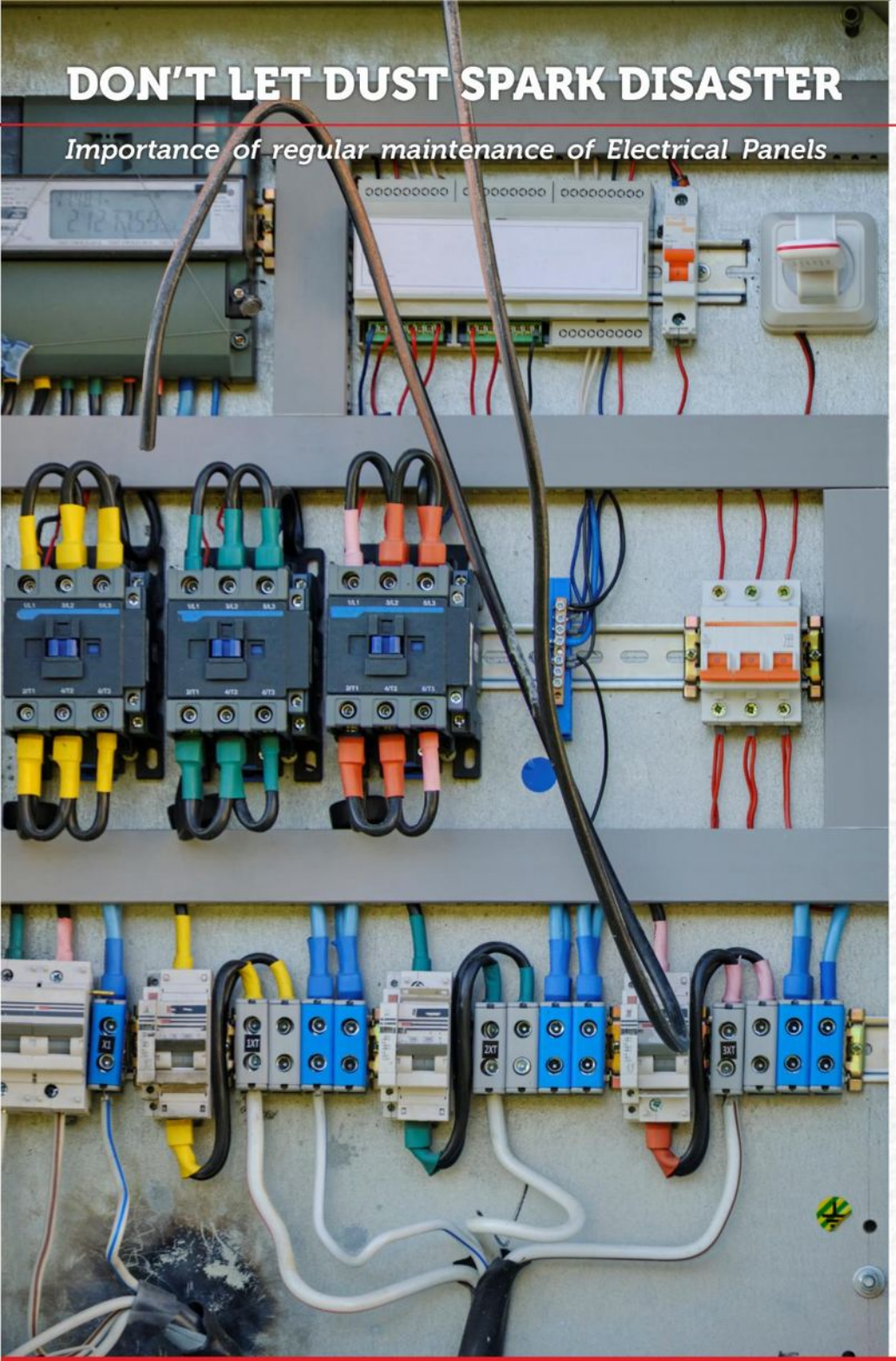



***EMPOWERING ELECTRICAL SAFETY...***

# ***WITHOUT DOWNTIME***

www.spidsolution.com

**PRODUCT PROFILE**



# DON'T LET DUST SPARK DISASTER

*Importance of regular maintenance of Electrical Panels*

NAU-Clean PowerSafe By SPiD

**Prevents Electrical Fires:**
*Dust and debris inside panels can trigger sparks and overheating, leading to fire hazards.*

**Improves Equipment Lifespan:**
*Clean components run cooler and last longer, reducing wear and replacements.*

**Avoids Unexpected Breakdowns:**
*Regular cleaning reduces the risk of sudden outages and operational downtime.*

**Ensures Audit & Safety Compliance:**
*Maintained panels meet industry safety standards and pass inspections easily.*

**Enhances Operational Efficiency:**
*Clean systems reduce energy losses and help equipment perform optimally.*

**Supports Proactive Maintenance:**
*Routine checks and cleaning let you fix minor issues before they become major problems*

A Solution by SPiD

# CLEAN SMARTER, NOT HARDER

*Currently employed cleaning practices and their drawbacks*

NAU-Clean PowerSafe By SPiD

| Traditional Cleaning Practices | V/S | Cleaning with NAU-Clean PowerSafe |
|---|---|---|
| Air blowing, diesel, thinner, cloth wiping | Cleaning Method | Purpose-built electrical cleaning chemical |
| High fire & electric shock risk | Safety | Non-conductive & safe when used correctly |
| Oily / sticky residue remains | Residue After Cleaning | No residue, dry finish |
| Dust pushed deeper inside the components | Effect on Dust | Dust dissolved and flushed out |
| Risk of damage to VFDs, PLCs, relays | Impact on Electronics | Safe for sensitive electronics |
| Very high (flammable liquids) | Fire Risk | No fire or explosion risk |
| Degrades insulation over time | Insulation Health | Maintains insulation integrity |
| Long & unpredictable | Downtime Required | Minimal downtime |
| Non-standard, inconsistent | Repeatability | Professional & repeatable process |
| Often fails safety audits | Audit & Compliance | Supports safety & maintenance standards |
| Informal / risky practice | Professional Image | Premium, professional maintenance |

# DO IT RIGHT TO KEEP IT RUNNING

*Best practices for maintaining the panels*

NAU-Clean PowerSafe By SPiD



- **Power Down When Possible – Safety First**
- **Always Use Non-Conductive, Residue-Free Cleaners**
- **Avoid Water, Thinners, or High-Pressure Air**
- **Follow a Scheduled Preventive Maintenance Plan**
- **Log Every Cleaning for Audit & Compliance**
- **Wear Proper PPE and Use Insulated Tools**

# NAUCLEAN – Clean Without Cutting Power

*A smarter, safer solution to maintain energized electrical systems*

NAU-Clean PowerSafe By SPiD

***NAU-Clean** is a non-conductive, residue-free cleaning solution engineered for electrical and electronic systems. Its advanced formula allows safe dust and grime removal without powering down, making it ideal for cleaning energized control panels, PLCs, switchgears, and more. Available in aerosol sprays for routine clean-ups and liquid drums for industrial-scale maintenance, **NAU-Clean** delivers powerful cleaning with zero residue, no corrosion, and maximum uptime.*

INTERNATIONAL GREEN-CERTIFIED PATENTED TECHNOLOGY




**NAU** **Non-conductive. Alternative, Unique** cleaning solution

A Solution by SPiD

# Why Choose NAU-Clean

NAU-Clean PowerSafe By SPID

### Non-Conductive & Live-Safe
Use safely on live panels without risk of short circuits – tested up to 100kV.

### Residue-Free Cleaning
Evaporates fully with no moisture or film – no need for wiping or drying.

### High Fire Safety
High ignition point (~265°C) greatly reduces fire risk during cleaning.

### Extends Equipment Life
Prevents dust-induced failures and overheating, helping systems last longer.



### Zero Downtime Maintenance
Clean energized systems without shutting down operations or losing productivity.

### Non-Corrosive Formula
Gentle on components; won't harm metal parts, plastics or insulation.

### Eco-Friendly & Certified
Free of CFCs and green-certified – safe for both workers and the environment.

### Improves Compliance & Audit Readiness
Keeps panels inspection-ready and aligned with electrical safety standards.

*Each of these benefits contributes to higher safety, reliability, and efficiency for your electrical infrastructure.*

*NAU-Clean isn't just a cleaner – it's a preventative maintenance tool that protects your assets.*

# VERSATILE APPLICATIONS ACROSS INDUSTRIES

NAU-Clean PowerSafe By SPiD



## TRANSPORTATION & MASS TRANSIT:

Railroads, Subway/Metro Systems and Airports
(critical transit systems requiring live electrical maintenance)



## ENERGY & POWER UTILITIES:

Power Generation Plants (Nuclear, Thermal, Hydroelectric) and Electrical Grid Infrastructure
(substations, Transmission Systems) that need continuous, live-panel upkeep



## TELECOMMUNICATIONS INFRASTRUCTURE:

Telecom Networks And Facilities Such As Switching Centers, Cell Tower Sites and Broadcasting Stations
that must remain powered during cleaning



## IT & DATA CENTERS:

Mission-critical Data Centers, Server Farms and Network Operations Centers
that operate 24/7 with no downtime for maintenance



## INDUSTRIAL & MANUFACTURING PLANTS:

Factories and Production Lines across sectors (e.g. Automotive, Electronics, Steel, Chemical)
where equipment is cleaned without halting operations



## OIL, GAS & CHEMICAL FACILITIES:

Petroleum Refineries, Gas Processing Plants and Petrochemical Complexes
with live electrical control panels in continuous or hazardous processes



## HEALTHCARE & HOSPITALS:

Hospitals, Medical Centers and Laboratories
with critical electrical systems that cannot be powered down



## GOVERNMENT & COMMERCIAL BUILDINGS:

Government Offices, Municipal Facilities, Schools, Corporate Campuses and Large Residential Complexes
that rely on uninterrupted power supply

# PANEL CLEANING, SIMPLIFIED

NAU-Clean PowerSafe By SPiD

| Before Cleaning | Cleaning | | | After Cleaning |
|---|---|---|---|---|
| Inspection with a thermal imaging camera Preparation for cleaning (With PPE on) | **1st** Cleaning with a high-pressure spray & TR/VCB | **2nd** Cleaning with low-pressure spraying & ACB/MCCB | **3rd** Cleaning with an air blowing & PLC panel | Removal of contaminants Cleaning and wiping of the enclosure & Inspection with a thermal imaging camera |

1



Conduct an inspection with a thermal imaging camera

2



Wear PPE and prepare for cleaning

3




Perform cleaning with a high-pressure spray **(1st Cleaning)**

4



Perform cleaning with a low-pressure spray **(2nd Cleaning)**

5



Perform cleaning with an air-blowing **(3rd Cleaning)**

6



7



Remove contaminants and Conduct the final inspection

# PROVEN & CERTIFIED TECHNOLOGY

*NAU-Clean isn't just another cleaner – it's a thoroughly tested and certified innovation*



CERTIFICATE OF PATENT

Patent Number 10-2506955

Application Number 10-2023-0008663

Filing Date 2023.01.20.

Registration Date 2023.03.02.

Title of the Invention
Insulation cleaner composition for electrical fire prevention that can be used in high-voltage electric and electronic communication facilities with power on

Patentee
Patentees are filled out in a registration page.

Inventor
Inventors are filled out in a registration page.

This is to certify that, in accordance with the Patent Act, a patent for the invention has been registered at the Korean Intellectual Property Office.

특허청
Korean Intellectual Property Office

2023.05.08.

Check your current registration with QR code

COMMISSIONER,
KOREAN INTELLECTUAL PROPERTY OFFICE

이 인 실



상표등록증
CERTIFICATE OF TRADEMARK REGISTRATION

등 록 Registration Number 제 40-1513814 호

출원번호 Application Number 제 40-2016-0114086 호

출원일 Filing Date 2016년 12월 16일

등록일 Registration Date 2019년 08월 26일

상표권자 Owner of the Trademark Right
나우메이드 주식회사(120111-*******)
서울특별시 구로구 디지털로27길 36, 513호(구로동, 이-스페이스)

상표권 사용할 상품 및 구분 List Of Goods
제 01 류
전기/전자/통신장비 세척제등 8건

NAUCLEAN
Non-conductive, Alternative, Unique Cleaning Solution

위의 표장은 「상표법」에 따라 상표등록원부에 등록되었음을 증명합니다.
This is to certify that, in accordance with the Trademark Act, a trademark has been registered at the Korean Intellectual Property Office.

특허청
Korean Intellectual Property Office

2019년 08월 26일

QR코드로 현재기준 등록사항을 확인하세요

특허청장
COMMISSIONER,
KOREAN INTELLECTUAL PROPERTY OFFICE

박 원주

# NAU-Clean Variants & Technical Specs

*NAU-Clean is available in two variants to fit different usage scenarios: an Aerosol Spray and a Liquid Solution*

NAU-Clean PowerSafe By SPiD



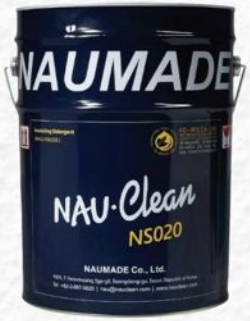

## Aerosol Spray

*Aerosol Cleaner for Maintenance of Small Electrical and Electronic Devices*

**(NA360, NA500)**

| | | | |
|---|---|---|---|
| **Model** | NAU-NA360, NAU-NA500 | **Container Type** | Aerosol Can |
| **Net Weight** | 360ml, 500ml (white, black) | **How to Use** | Spray directly onto the equipment for cleaning |
| **Application** | • Distribution Panels, Control Panels, PLC & PCB<br>• Inverters, Information Communications EPS, Small Motors<br>• Desktop PCs, Signal Controllers<br>• Electronic Device Parts and Communications Equipment Boards<br>• Office Distribution Panels, Outlets<br>• Various Insulating Bushings, Busbars, and Circuit Breaker S/W (Black Cap Recommended) | | |

| | | | | | |
|---|---|---|---|---|---|
| **Physical State** | Anhydrous Non-soluble Liquid | **Propellant** | HCFC / HFC / HFO gas | **Residue** | None |
| **Appearance** | Colourless / Transparent | **Auto-ignition Temperature** | Max 265°C (509°F) | **Corrosivity to Metals** | None |
| **Specific Gravity** | 0.75 g/cm³ | **Boiling Point** | 196-224°C (384.8 - 435.2°F) | **Dielectric Breakdown Voltage** | Max 100kV |




## Cleaning Agent

*Liquid Cleaning Agent Exclusively for Electrical/Electronic Equipment Where Power Shutdown Is difficult*

**(NS020)**

| | | | |
|---|---|---|---|
| **Model** | NAU-NS020, NAU-NS020-SA (Innovative Product) | **Container Type** | Cylindrical Drum Container |
| **Net Weight** | 20L | **How to Use** | Clean using dedicated cleaning equipment |
| **Application** | • UHV Substations (220kV~35kV), EHV (22.9kV~13.8kV) & HV (6.6kV~3.3kV) Transformers<br>• Switchgears (MOF/PT//PF), VCB Panels, etc.<br>• LV (440V~380V) Panels, ACB & MCCB Panels, etc.<br>• Control Panels, PLC, Switch Panels<br>• Various Insulators, Busbars, Circuit Breakers<br>• DC1500V/DC110V Rectifiers & RTUs | | |

| | | | | | |
|---|---|---|---|---|---|
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SPiD SOLUTIONS
Shaping Power Seamlessly

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