



IO-WGCA IGC  
INTERNATIONAL GREEN  
CERTIFICATION MARK

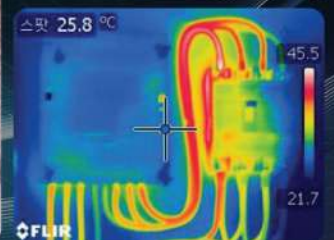
국제기구 세계녹색기후기구 국제녹색인증

Insulating detergent, NAU-CLEAN (IGC-KRNM170106001F5)

*International Green Certification(IGC),  
Technical Patented product.*

# Electrical Fire & Safety Solution

## NAU-CLEAN & NAU-Safety



SOLUTION LIQUID(NS020)



AEROSOL(NA500/NA360)

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

[www.nauclean.com](http://www.nauclean.com)

Cleaning elec panel with power on  
(Min of Electricity & Water, Kuwait)

## “NAU-CLEAN & NAU-Safety Solution”

for electric, electronic  
and communication equipment

\* NAU-Safety (Non-conductive, Alternative, Unique cleaning solution)

For safe and stable operation & maintenance of  
electric, electronic and communication facilities

### Non-conductive & insulation reinforced NAU-Safety Cleaning Solution

Clean easy & comfortable, without power-off,  
electric panels (220kV HV, 33kV MV, VCB & ACB etc.) and  
precise parts of computer & communication equipments



Clean now!  
before it's too late!  
“NAU-Safety”  
cleaning



#### ■ NAU-Safety Summary

Non-conductive cleaning solution to clean electric facilities of the factories or buildings where it is hard to shut down power, with NAU-CLEAN product, which reduces disorder of facilities by removing pollutant such as fine dust and prevents danger of electric fire in advance, thus improving their work efficiency.

#### ■ Application

- HV(220kV), MV(33kV~11kV), LV(440V) panel
- Electric & electronic facilities, communication equipments, MDF & signal controller
- Inverter/converter & robot controller
- Automated facilities & PLC
- Semiconductor equip/medical equip.
- Electronics, server computer & PCB
- Maintenance of electronic parts

# NAU-Safety Cleaning Solution

## ■ NAU-Safety Procedures



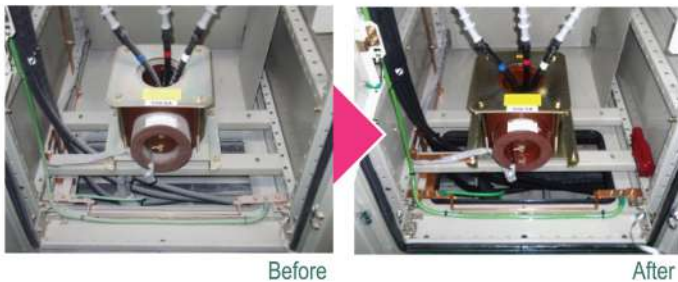
## ■ NAU-Safety Effect

- Safety & durability : Preventing electric fire & raising durability
- Non-conductive : Cleaning without power-off up to 220kV
- Non-corrosive : No damage to the parts, extending life
- High ignition point (min. 230°C) : Safe cleaning work
- Excellent detergency : Leaving no residue by self evaporation

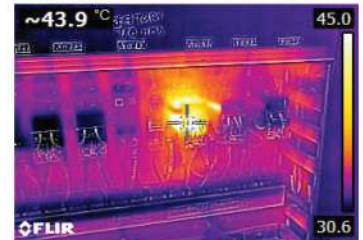
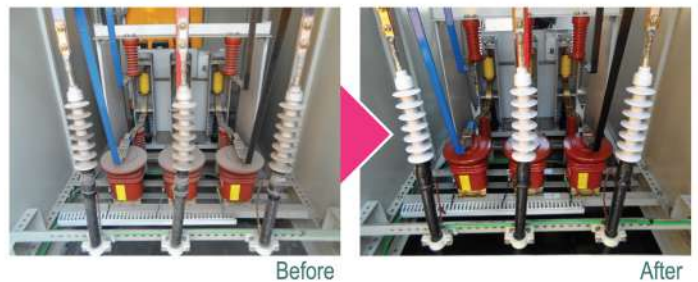
## ■ NAU-Safety Special Features

- **Prevention** Prevent electric disorders in advance by eliminating risk factors such as dust/moisture/alien substances
- **Convenience** Non-stop cleaning without power-off of the facilities
- **Safety** No part damage by using low toxic, non-oxidizing, non-corrosive and eco-friendly certified detergent
- **Economics** Increase work efficiency & productivity by Non-Stop Cleaning, and extend component life
- **Technical Skill** International Green Certification(IGC), Technical patented, and KOLAS certified

## ■ NAU-Safety Before & After



## ■ Work Samples



## ■ Major Clients



# NAU-CLEAN

Non-conductive,  
Alternative,  
Unique clean

## ■ NAU-CLEAN Product outline

NAU-CLEAN is a product of International Green Certification(IGC), containing Zero ODP, and it can clean fine dust inside of electric panel(HV & LV), electronic & communication equipment and high tech & precise control facilities even in POWER-ON.

NS020 / Solution is Liquid type product to clean dust by spraying deep inside the facilities with a dedicated cleaning equipment. And it is suitable for professional cleaning service of large quantity of facilities in factory.

NA500, NA360 / Aerosol is a portable spray type product to clean dust inside by spraying solution directly into equipment containing electric / electronic parts and complex cables, and it is suitable for dust removal of computers and communication equipment used in offices and homes.

NAU-CLEAN has the economical effect of extending the durability of the electric facilities by removing the factor of electric disorder. Besides, it will not cause damage to the parts as it is non-corrosive & non-oxidizing, and it will not leave residue by self evaporation after cleaning.

## ■ NAU-CLEAN Product

## ■ Specifications

• Appearance	Liquid
• Color	colorless / transparent
• Spray gas (Aerosol)	HFO/HFC/HCFC gas
• Gravity	0.75g/cm <sup>3</sup>
• Ignition point	min.230℃ (446 °F)
• Boiling point	196℃~244℃
• Dielectric breakdown voltage (K-Petro)	100kV (IEC60156)
• Metal corrosive	None
• Residue after cleaning	None

## ■ Characteristics

- Non-conductive ▷ Usable without power-off
- High Ignition point ▷ Low danger of fire
- Non-corrosive ▷ Safe from part damage
- Leaving no residue ▷ Excellent detergency
- International Green Certification(IGC), Technical patent product
- Aerosols are safe at high temperatures using pressure cans

Category	For professional cleaning services (HV & LV)
Model	<b>NS020</b>
Picture	
Size	20L
Type	Liquid / Steel container
Use	Professionally own-designed cleaning equipment required
Applications	<ul style="list-style-type: none"> <li>• HV(220kV), MV(33kV~11kV) and VCB &amp; MCCB panel</li> <li>• Electric facilities, communication equipment / MDF &amp; Signal controller</li> <li>• Inverter / Converter &amp; Robot controller</li> <li>• Semiconductor facilities &amp; PLC</li> <li>• High tech medical equipments</li> <li>• Server computer, PCB &amp; electronic parts</li> <li>• Other electronic parts maintenance</li> </ul>
Handling Precautions	<ul style="list-style-type: none"> <li>• Only professionally Own-designed cleaning equipment should be used</li> <li>• Do not mix with water or any other matters</li> <li>• Store a room temperature (15℃~35℃)</li> <li>• Keep away from spark or flame</li> </ul>

The first patent technology!

**NAU-Clean**  
Non-Conductive  
Insulating Detergent



At home /  
At an office /  
Even at a factory /

**Necessity!**



The biggest cause  
of electrical fire  
**dust!**



Computers



PCB inside  
home appliances



Electronic equipments



Distributing boards

\* NAU-CLEAN is IO-WGCA's international green certification product.

■ Certificates ( PATENT, International Green Certification(IO-WGCA), Test Report(K-Petro/Korea, EETC/China), ISO9001:2015 )



For maintenance of LV

For office / home use of LV

**NA500**

**NA360**



500mL

360mL

Aerosol / Can

Aerosol / Can

by spraying directly to the object

by spraying directly to the object

- Communication equipment / Signal controller
- Inverter / Converter
- PCB assembly / Robot controller
- Automated facilities & PLC
- Semiconductor facilities / High tech medical equip.
- Server computer, PCB and electronic parts
- PC & electronic parts maintenance

- PCB and various boards such as CPU main board, graphic card in desktop
- PCB inside home appliances (fan, air conditioner, etc.)
- LV inverter / converter panel
- Set top box & communication equip
- Distributing boards / MCC control panel
- PCB Assembly / PLC

- Do not spray on parts that can not be evaporated
  - Liquid crystal such as LCD, PDP monitor
  - Parts which have Thin silicon, such as cellphone & calculator
- Store in a room temperature (15°C~35°C)
- Keep away from spark or flame

# NAU-CLEAN

## “ Non-conductive Insulating Detergent ” **NAU-CLEAN**

- NAU-CLEAN is a non-conductive insulating detergent to clean alien substances such as fine dust & moisture in the electric, electronic & communication equipments, to pre-eliminate the cause of hot temperature deterioration phenomenon, which are the main reason of their malfunction and disorder.
- NAU-CLEAN is the IO-WGCA IGC certified product, colorless & clear liquid, leaving no residue by self evaporation, containing no ODP(ozone depletion potential), and no harm to the parts after work as is non-corrosive.
- NAU-CLEAN is non-conductive up to 220kV, so it can clean electric panels of HV(220kV) & LV(440V), inverter, converter, computer & communication equipments without power-off, so extending the life & durability of the facilities, and raising the work efficiency of the factory.

### Application

- Communication equip.
- Signal controller
- Inverter / Converter
- All kinds of controller
- PCB assembly
- All parts of computer
- Semiconductor facilities
- Automated equipments
- High tech medical equip.
- Maintenance of electronic parts

### Model

- NAU-NA500  
Size : 500ml  
Type : Aerosol can / spray  
Use : Low Voltage
- NAU-NA360  
Size : 360ml  
Type : Aerosol can / spray  
Use : Low Voltage
- NAU-NS020  
Size : 20L  
Type : Liquid / Steel container  
Use : High Voltage



### Special features

- **Convenience** Easy & rapid cleaning without power-off & without time limitation
- **Economical** Every inner corner of small parts of electric, electronic & communication equip can be cleaned, extending the life of the equipments.
- **Detergency** Even the fine dust invisible in a deep corner can be cleaned clearly
- **Safety** Cleaning without power-off is possible due to non-conductivity under 220kV, and no danger of elec fire due to high ignition point (min.230°C)
- **Portability** Easy to carry aerosol type for use in any place (solution type can be used with the own compressor)
- **IO-WGCA IGC certified** Low toxic & non-corrosive containing zero ODP (ozone depletion potential) & non-oxidizing

### Specifications

- Color : colorless / transparent
- Viscosity : same as water
- Ignition point : min.230°C (446°F)
- Non-conductive : under 100kV (IEC60156)
- Using HFO/HFC/HCFC gas
- Residue : self evaporation
- PL insured/Service compensation insured (K.Won 1Bil.)
- International Green Certification(IGC), Technical patented
- Country of origin : Rep. of Korea

### Manufacturer

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