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CATALOG KỸ THUẬT · NCT

Cảm biến rò rỉ hóa chất NCT

axit NA01AA · kiềm NA02AA · bộ điều khiển NB01AA · đầu nối NC01AA

NA01AA, NA02AA NCT – bộ cảm biến rò rỉ hóa chất dạng dây: phát hiện axit, kiềm, dung môi; phân biệt với nước; bộ điều khiển NB01AA RS-485, đầu nối NC01AA.

Mã: NA01AA / NA02AA, NB01AA · Hãng: NCT · Hotline: 093 797 2339

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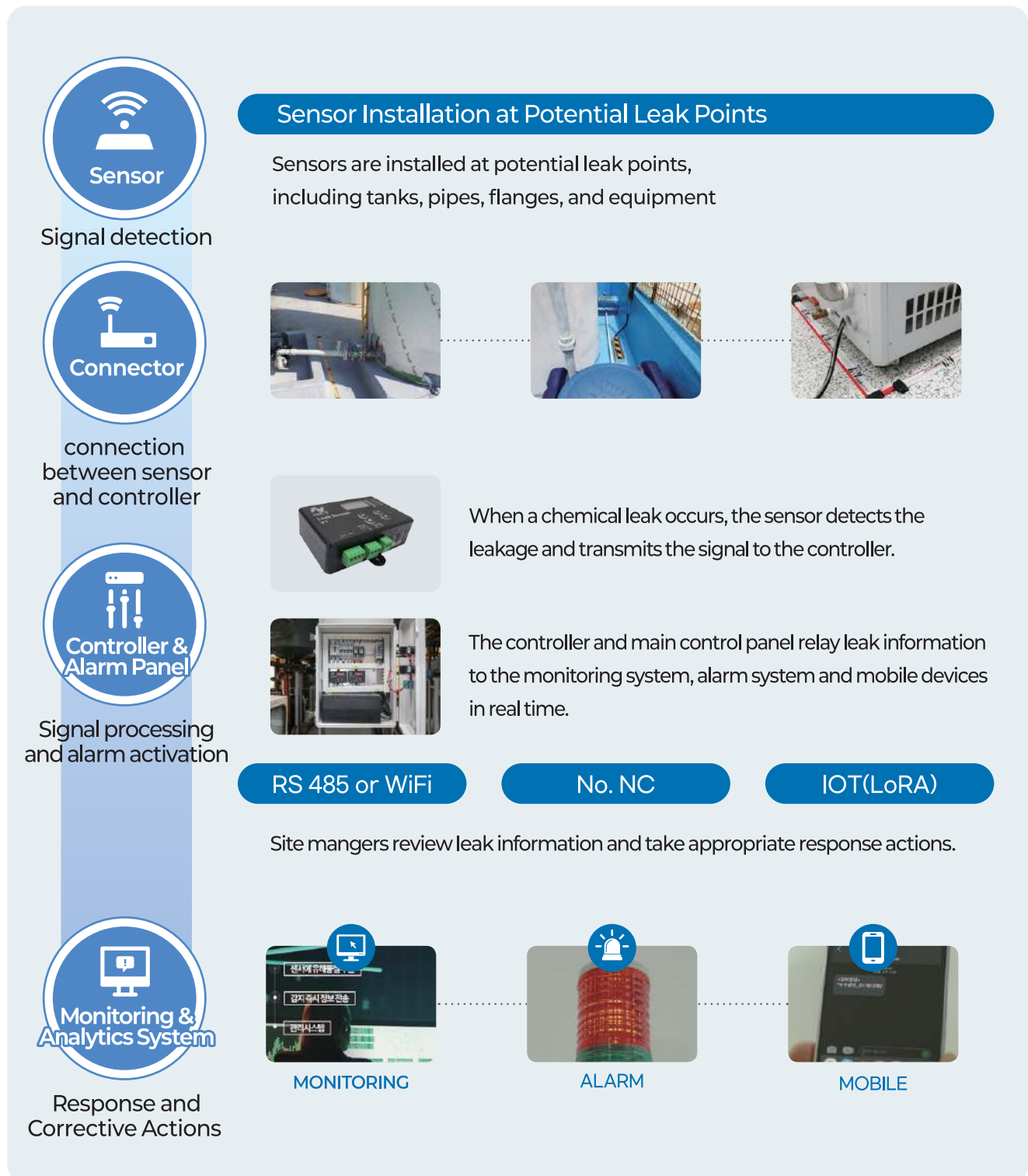


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Smart Safety Management Solution

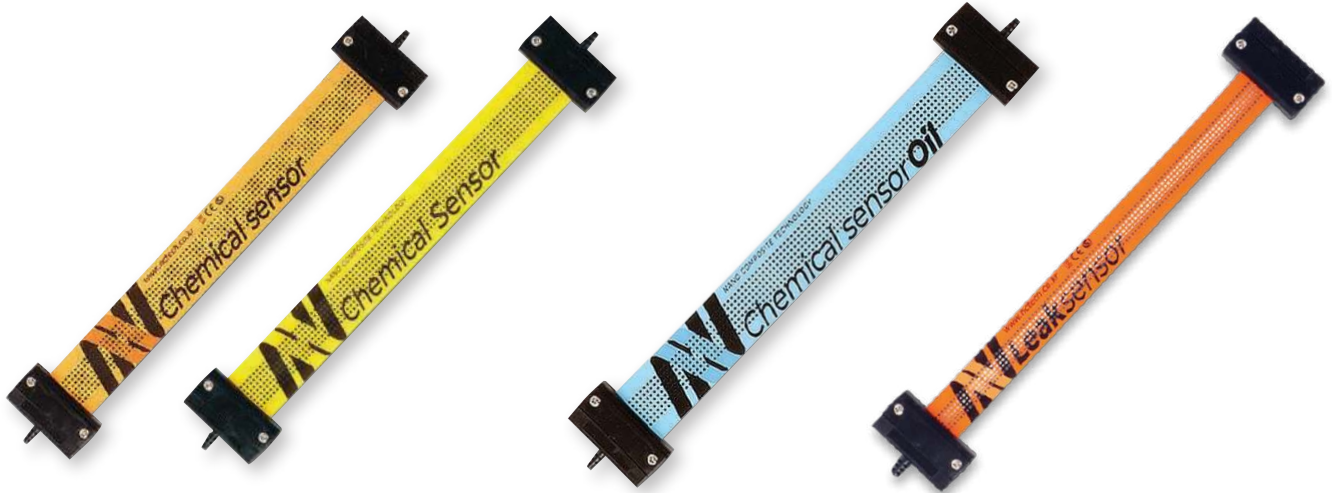
NCT's leak detection solution provides an integrated safety management system that seamlessly connects the entire workflow, from detection and alarming to monitoring and analysis.

System Workflow



Smart Leak Sensor

Film-type Leal Sensor



Chemical Leak Sensor

Oil Leak Sensor

Leak Sensor

Key Features

- **Dedicated sensors for various detection targets**
 - Classified into chemical detection, oil leak detection, and general liquid leak (conductive liquid) detection according to the target
 - Optimized sensing structures for each liquid ensure high precision and reliability
- **Carbon nanomaterial-based reactive sensing technology**
 - Carbon nanomaterial-based chemical reaction sensors enable real-time detection of trace and low-concentration hazardous chemicals
 - Selective detection and differentiation of water, chemicals, and mixed liquids
- **Excellent durability and long-term stability**
 - Maintains stable performance without sensitivity degradation even in high humidity, condensation, and corrosive environments
 - Polymer materials provide superior corrosion and chemical resistance compared to conventional metal sensing parts
- **Flexible installation and high adaptability**
 - Thin and flexible film structure allows easy attachment to various locations

Unit of sale : 1m

Chemical Leak Sensor

1 Acid Sensor



Before
Detection



After
Detection



2 Alkali Sensor



Before
Detection



After
Detection



*Optional : Cover film color change when a substance is detected

Product Spec

Product Name	Chemical Leak Sensor
Product Number	NA01AA, NA02AA (model varies by target Substance)
Dimensions	Width 36 mm / Thickness 370 μ m
Detectable Substances	- Acids: Hydrofluoric acid, Nitric acid, Sulfuric acid, Hydrochloric acid, Chromic acid - Alkalis: Ammonia, Sodium hydroxide, Potassium hydroxide - Organic - solvents: Ethanol, 2-Ethoxyethanol, Methyl ethyl ketone, Toluene, Trichloromethane, NMP, etc. (For other substances, please contact us)
Features	Directly reacts with chemical substances to detect them quickly and accurately. Sensor color varies by target substances.
Operating Temperature	-30 to 100°C
Material	PET
Options	Cover film changes color upon chemical detection
Precautions	This product cannot be used as a standalone unit. It must be configured with the dedicated Controller (NB01AA) and Connector (NC01AA).

Controller for Chemical Leak Sensor

The dedicated chemical controller receives signals from leak detection sensors, triggers alarms, and transmits them to monitoring devices to enable early damage detection. Real-time data (concentration, leakage volume) can be checked on-site, and sensor response data is automatically stored and managed.

Key Features

- Supports connection of up to two sensors
- Detection conditions can be configured according to sensor type and installation environment
- Enables on-site monitoring through real-time sensor data display
- Reliability verified through S-Mark, CE, and KC certifications
- Integrated monitoring function
 - Uses RS-485 communication
 - Sensor data logging and accumulation function
 - Mobile communication function
 - Monitors product status in real time



Controller for Chemical Leak Sensor

Panel Configuration and Functions



- ① FND display for sensor status and settings
- ② LED indicator for sensor status
- ③ Switch for sensor status check and configuration
- ④ Leak sensor connection terminal
- ⑤ Relay connection terminal
- ⑥ External power connection terminal / communication





Product Spec

Product Name	Controller for Chemical Leak Sensor
Product Number	NB01AA
Dimensions	96mm(W) * 66mm(H) * 29mm(D)
Power Supply	DC 24V, 200mA
Communication Method	- RS-485 : MODBUS communication, 9600BPS - IoT : Utilize LoRa network, enabling real-time sensor control and monitoring through a mobile app
Output	RELAY 1 FROM C*2, 1A 24VDC, 0.5A 125VAC
SENSOR INPUT	1k Ω ~ 5,000k Ω
Operating Temperature	-30 to 100°C
Material	PP
Precautions	This product cannot be used as a standalone unit. It must be configured with the dedicated Sensors (NA01AA, NA02AA, NA03AA) and dedicated Connectors (NC01AA).

Connector

Start Connector for Leak Sensor

Product Name	START Connector for Leak Sensor
Product Number	NC03AA
Dimensions	55.5 mm (W) * 18 mm (H) * 12.6 mm (D)
Operating Temperature	-30 to 100°C
Material	PVC
Features	- Connector for leak sensor - It is divided into a start connector and an end connector. - The START connector is supplied with a cable for connection to the controller
Precautions	This product cannot be used as a standalone unit. It must be configured with the dedicated Controller (NB03AA) and the dedicated Sensor (NA04AA).



End Connector for Leak Sensor

Product Name	END Connector for Leak Sensor
Product Number	NC05AA
Dimensions	55.5 mm (W) * 18 mm (H) * 12.6 mm (D)
Operating Temperature	-30 to 100°C
Material	PVC
Features	- Connector for leak sensor - It is divided into a start connector and an end connector. - The END connector is not supplied with a cable
Precautions	This product cannot be used as a standalone unit. It must be configured with the dedicated Controller (NB03AA) and the dedicated Sensor (NA04AA).



Connector for Chemical Leak Sensor

Product Name	Connector for Chemical Leak Sensor
Product Number	NC01AA
Dimensions	55.5 mm (W) * 18 mm (H) * 12.6 mm (D)
Operating Temperature	-30 to 100°C
Material	PVC
Features	- Connector dedicated to chemical leak sensor - No START/END type distinction (single type) - Each cable connected to the connector is wired to the controller.
Precautions	This product cannot be used as a standalone unit. It must be configured with the dedicated Controller (NB03AA) and the dedicated Sensor (NA04AA).

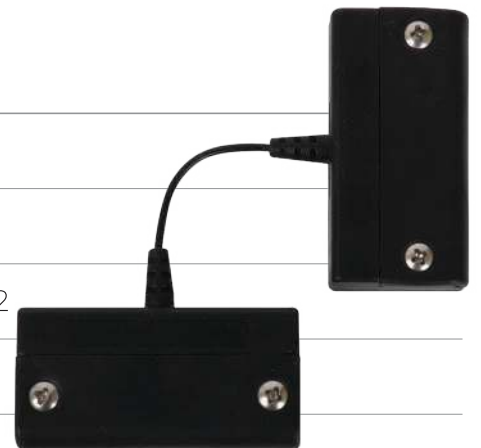


Link Connector



Product Name	Link Connector
Product Number	NC02AA
Dimensions	75 mm (W) * 75 mm (H) * 12.6 mm (D)
Operating Temperature	-30 to 100°C
Material	PVC
Features	- Compatible with both leak and chemical leak sensor - Used at bends/corners in the installation path - Sensors are installed on both sides
Precautions	This product cannot be used as a standalone unit. It must be used with the controller and sensors.

Flexible Link Connector



Product Name	Link Connector — Flexible Type
Product Number	NC06A
Dimensions	55.5 mm (W) * 18 mm (H) * 12.6 mm (D) * 2
Operating Temperature	-30 to 100°C
Material	PVC
Features	- Compatible with both leak and chemical leak sensor - Used at bends/corners in the installation path - Sensors are installed on both sides - The length of the intermediate cable is adjustable
Precautions	This product cannot be used as a standalone unit. It must be used with the controller and sensors.

Installation Accessories

Sensor Protective Case (SUS)

Key Features

- A film-type sensor is installed inside the enclosure for protection
- Leakage is detected as liquid passes through the bottom of the enclosure

Product Number	NF01A, NF01B, NF01C
Material	SUS (Stainless Steel)
Dimensions	Custom-built based on the required film sensor length
Detailed Dimensions	- NF01A: 115 mm (W) * 200–500 mm (H) * 50 mm (D) - NF01B: 115 mm (W) * 501–1,000 mm (H) * 50 mm (D) - NF01C: 115 mm (W) * 1,001–2,000 mm (H) * 50 mm (D)

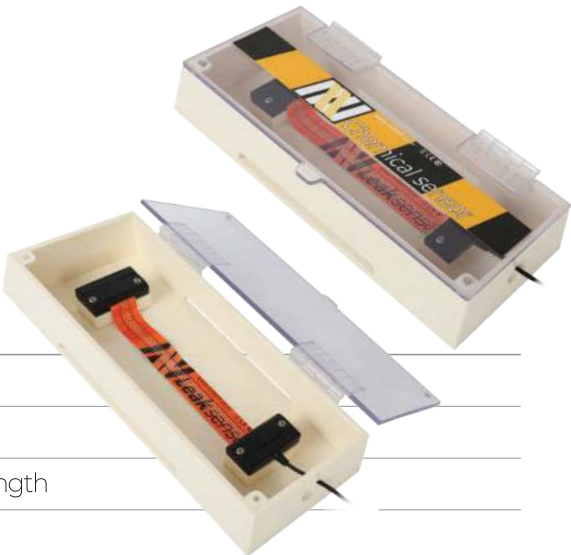


Sensor Protective Case (Plastic)

Key Features

- A film-type sensor is installed inside the enclosure for protection
- Leakage is detected as liquid passes through the bottom of the enclosure
- Suitable for environments where metal cannot be used—especially in highly corrosive chemical handling areas

Product Number	NF02A, NF02B, NF02C
Material	PVC
Dimensions	Custom-built based on the required film sensor length
Detailed Dimensions	- NF02A: 115 mm (W) * 200–500 mm (H) * 50 mm (D) - NF02B: 115 mm (W) * 501–1,000 mm (H) * 50 mm (D) - NF02C: 115 mm (W) * 1,001–2,000 mm (H) * 50 mm (D)

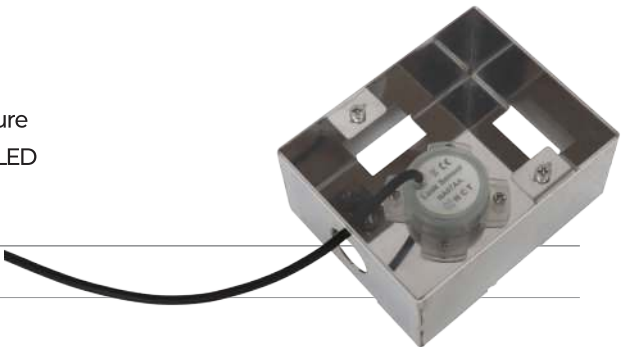


Protective Case for Point-Type Sensor

Key Features

- Point-type sensor is installed inside the enclosure for protection
- Leakage is detected as liquid passes through the bottom of the enclosure
- The transparent top allows visual status indication via the point sensor LED (Green: Normal / Red: Leak)
- Upon customer request, the top plate can be fabricated in SUS

Product Number	NF03A
Material	SUS, PVC
Dimensions	80 mm (W) * 100 mm (H) * 50 mm (D)

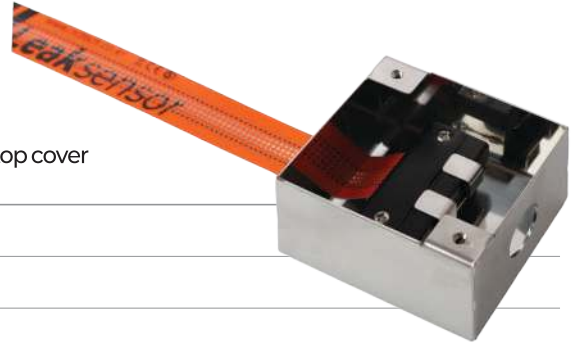


Connector Protective Case

Key Features

- Protects connectors from external environmental factors
- Connect the connector inside the enclosure, then close and secure the top cover

Product Number	NF04A
Material	SUS
Dimensions	70 mm (W) * 80 mm (H) * 50 mm (D)

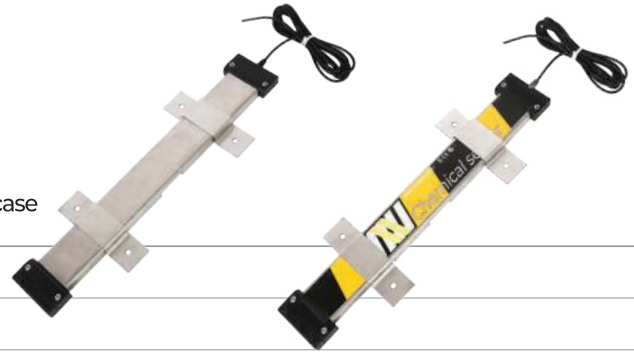


Sensor Protective Cover

Key Features

- Cover-type protection placed over the film sensor
- Secured to the floor using separate saddles
- A separate label is affixed to the top surface of the protective case

Product Number	NF05A
Material	SUS
Dimensions	40 mm (W) * 15 mm (H) * 2400 mm (L), 1.2 mm (T)



UPS

Key Features

- Uses a built-in battery during power outages to keep the alarm module operating. – Certified: KC, CE
- Emergency power (UPS) is required in accordance with Chemical Safety Authority notification criteria.



Standard Model

Product Number	NF06A
Material	101 mm (W) * 279 mm (H) * 142 mm (D)
Dimensions	12 V / 7 Ah
Input / Output	220 VAC (10%, 50/60 Hz)
Weight	4.2 kg



Compact Model

Product Number	NF07A
Material	84 mm (W) * 72 mm (H) * 42 mm (D)
Battery Capacity	14.4 V × 3,000 mAh
Input / Output	24 V (±10%)
Weight	400 g

Quick Guide to Leak Detection System Configuration

The sensor shall be configured with the dedicated controller and connector.
Refer to the guide below to verify the appropriate configuration for each system.

Detectable Substance	Sensor Model	Dedicated Controller	Dedicated Connector
Chemicals	 NA01AA	 NB01AA	 NC01AA
	 NA02AA		
Oil	 NA03AA	 NB01AA	 NC01AA
Conductive Liquids	 NA04AA	 NB03AA	 NC03AA
	 NA07AA	Integrated controller (standalone installation and operation)	
			 NC05AA

List of Detectable Substances

1. ACID (※ For other substances, please contact us.)

No	Substance Name	Formula	CAS No.
1	Sulfuric Acid	H ₂ SO ₄	7664-93-9
2	Hydrosulfuric acid	H ₂ S	7783-06-04
3	Hydrochloric Acid	HCl	7647-01-0
4	Chromic acid	H ₂ CrO ₄	7738-94-5
5	Ethanol	C ₂ H ₅ OH	64-17-5
6	2-Ethoxyethanol	C ₄ H ₁₀ O ₂	110-80-5
7	Toluene	C ₇ H ₈	108-88-3
8	Ethyl Acetate	CH ₃ COOCH ₂ CH ₃	141-78-6
9	Methylene Chloride, MC	CH ₂ Cl ₂	75-09-2
10	Isopropyl Alcohol, 2-Propanol (IPA)	CH ₃ CH ₃ CHOH	67-63-0
11	Methanol	CH ₃ OH	67-56-1
12	Acetone, ACT	CH ₃ COCH ₃	67-64-1
13	Electrolyte	-	-
14	Electrolyte Wastewater	-	-
15	Chromium oxide	CrO ₃	1333-82-0
16	FURAN RESIN	-	-
17	Nitric Acid	HNO ₃	7697-37-2
18	Ethyl benzene	C ₆ H ₅ CH ₂ CH ₃	100-41-4
19	Trichloromethanen / Chloroform	CHCl ₃	67-66-3
20	N-Methyl-2-Pyrrolidone (NMP)	C ₅ H ₉ NO	872-50-4
21	Methyl Carbonate		616-38-6
22	Ethanol	CH ₃ CH ₃ OH	64-17-5
23	Methyl ethyl ketone, MEK	C ₂ H ₅ COCH ₃	78-93-3
24	Hydrogen fluoride, HF	HF	7664-39-3
25	Acetonitrile	CH ₃ CN	75-05-8
26	Cholorosilane(MCS)	-	13465-78-6
27	N,N-Di Methyl Formamide(DMF)	(CH ₃) ₂ NCOH	68-12-2

2. ALKALI (※ For other substances, please contact us.)

No	Substance Name	Formula	CAS No.
1	Sodium Hydroxide	NaOH	1310-73-2
2	Ethyl Acetate	CH ₃ COOCH ₂ CH ₃	141-78-6
3	Methylene Chloride, MC	CH ₂ Cl ₂	75-09-2
4	2-Isopropyl Alcohol, 2-Propanol(IPA)	CH ₃ CH ₃ CHOH	67-63-0
5	Ethanol	C ₂ H ₅ OH	64-17-5
6	2-Ethoxyethanol	C ₄ H ₁₀ O ₂	110-80-5
7	Toluene	C ₇ H ₈	108-88-3
8	Methanol	CH ₃ OH	67-56-1
9	Acetone, ACT	CH ₃ COCH ₃	67-64-1
10	Ammonium hydroxide	NH ₄ OH	1336-21-6
11	Nickel Sulfate	NiSO ₄	7786-81-4
12	Potassium Hydroxide	KOH	1310-58-3
13	Hydrogen Peroxide	H ₂ O ₂	7722-84-1
14	Ethyl benzene	C ₆ H ₅ CH ₂ CH ₃	100-41-4
15	Trichloromethane / Chloroform	CHCl ₃	67-66-3
16	N-Methyl-2-Pyrrolidone (NMP)	C ₅ H ₉ NO	872-50-4
17	Poly Aluminum Chloride, PAC	[Al ₂ (OH) _n Cl _{6-n}] _n	1327-41-9
18	Methyl Carbonate		616-38-6
19	Methylene diphenyl diisocyanate	C ₁₅ H ₁₀ N ₂ O ₂	101-68-8, 2535-05-2
20	Ethanol	CH ₃ CH ₂ OH	64-17-5
21	dimethylpropylamine	C ₅ H ₁₃ N	926-63-6
22	Methyl ethyl ketone, MEK	C ₂ H ₅ COCH ₃	78-93-3
23	Acetonitrile	CH ₃ CN	75-05-8
24	Chlorosilane(MCS)	-	13465-78-6
25	Di Methyl Formamide(DMF)	(CH ₃) ₂ NCOH	68-12-2
26	Ethyl benzene	-	-
27	Cyclohexylamine, CHA	-	108-91-8



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