

# PRODUCTS



**日本化学産業株式会社**

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ITEM	CHEMICAL FORMULA	PURITY(min.%)	MAIN APPLICATION
<b>COPPER COMPOUNDS</b>			
Cuprous Chloride *	CuCl	98	Pigment, Catalyst raw material
Cupric Chloride	CuCl <sub>2</sub> · 2H <sub>2</sub> O	97	Pigment, Catalyst raw material
Cupric Chloride Anhydride	CuCl <sub>2</sub>	98	Pigment, Catalyst raw material
Cupric Ammonium Chloride	CuCl <sub>2</sub> · 2NH <sub>4</sub> Cl· 2H <sub>2</sub> O	95	Fixing agent for dyestuff
Cupric Nitrate *	Cu(NO <sub>3</sub> ) <sub>2</sub> · 3H <sub>2</sub> O	99	Catalyst, Combustion aid
Cupric Sulfate *	CuSO <sub>4</sub> · 5H <sub>2</sub> O	98	Plating
Cuprous Cyanide *	CuCN	99	Plating
Sodium Copper Cyanide *	Na <sub>2</sub> [Cu(CN) <sub>3</sub> ]· 3H <sub>2</sub> O	95	Plating
Potassium Copper Cyanide *	K <sub>2</sub> [Cu(CN) <sub>3</sub> ]	95	Plating
Brass Salt *			Brass plating
Cupric Carbonate(basic)	xCuCO <sub>3</sub> · yCu(OH) <sub>2</sub> · zH <sub>2</sub> O	Cu :50, 55	Catalyst, Plating
Cupric Acetate *	Cu(CH <sub>3</sub> COO) <sub>2</sub> · H <sub>2</sub> O	95	Catalyst, Dyestuff
Cuprous Iodide	CuI	99	Heat stabilizer, Conductive material
Cuprous Oxide *	Cu <sub>2</sub> O	Cu:86	Marinepaint, Pigment
Cupric Oxide	CuO	98	Glass, Ceramics
Cupric Oxide DC	CuO	Cu :73	Plating
Cupric Pyrophosphate *	Cu <sub>2</sub> P <sub>2</sub> O <sub>7</sub> · 4H <sub>2</sub> O	99	Plating
Cupric Bromide	CuBr <sub>2</sub>	97	Agricultural chemicals
<b>TIN COMPOUNDS</b>			
Stannous Chloride	SnCl <sub>2</sub> · 2H <sub>2</sub> O	98	Plating, Antistripping agent
Stannous Chloride Anhydride	SnCl <sub>2</sub>	98	Plating, Antistripping agent
Stannous Chloride (45%)	SnCl <sub>2</sub> · 2H <sub>2</sub> O (soln.)	45	Plating, Catalyst raw material
Stannic Chloride Anhydride	SnCl <sub>4</sub>	99	Catalyst raw material, Electronics, Glass
Stannous Sulfate	SnSO <sub>4</sub>	98	Electrolytic pigmentation, Plating
Sodium Stannate	Na <sub>2</sub> SnO <sub>3</sub> · 3H <sub>2</sub> O	Sn :36, 40, 42	Plating
Potassium Stannate	K <sub>2</sub> SnO <sub>3</sub> · 3H <sub>2</sub> O	Sn:39	Plating
Stannous Pyrophosphate	Sn <sub>2</sub> P <sub>2</sub> O <sub>7</sub>	97	Plating, Alloy plating
Stannous Oxide	SnO	Sn <sup>2+</sup> :86	Pigment, Plating
Stannic Oxide	SnO <sub>2</sub>	99	Electronics
Meta Stannic Acid	H <sub>2</sub> SnO <sub>3</sub>	95	Pigment, Flame retardant
<b>NICKEL COMPOUNDS</b>			
Nickel Chloride	NiCl <sub>2</sub> · 6H <sub>2</sub> O	Ni :24	Plating, Dyestuff
Nickel Nitrate	Ni(NO <sub>3</sub> ) <sub>2</sub> · 6H <sub>2</sub> O	98	Battery, Catalyst raw material
Nickel Sulfate	NiSO <sub>4</sub> · 6H <sub>2</sub> O	Ni :21	Plating, Catalyst raw material
Nickel Ammonium Sulfate	(NH <sub>4</sub> ) <sub>2</sub> Ni(SO <sub>4</sub> ) <sub>2</sub> · 6H <sub>2</sub> O	95	Plating
Potassium Nickel Cyanide	K <sub>2</sub> [Ni(CN) <sub>4</sub> ]· H <sub>2</sub> O	95	Plating
Nickel Carbonate (basic)	xNiCO <sub>3</sub> · yNi(OH) <sub>2</sub> · zH <sub>2</sub> O	Ni :35, 44	Plating, Catalyst raw material
Nickel Acetate	Ni(CH <sub>3</sub> COO) <sub>2</sub> · 4H <sub>2</sub> O	95	Anodized aluminum sealing

\* Sourced Product

(soln.): Aqueous solution

ITEM	CHEMICAL FORMULA	PURITY(min.%)	MAIN APPLICATION
Nickel Sulfamate	Ni(NH <sub>2</sub> SO <sub>3</sub> ) <sub>2</sub> · 4H <sub>2</sub> O	96	Plating, Electroforming
Nickel Sulfamate (60%), (65%)	Ni(NH <sub>2</sub> SO <sub>3</sub> ) <sub>2</sub> · 4H <sub>2</sub> O (soln.)	60, 65	Plating, Electroforming
Nickel Bromide (50%)	NiBr <sub>2</sub> · 6H <sub>2</sub> O (soln.)	50	Plating

### COBALT COMPOUNDS

Cobalt Chloride	CoCl <sub>2</sub> · 6H <sub>2</sub> O	98	Paint, Plating
Cobalt Nitrate	Co(NO <sub>3</sub> ) <sub>2</sub> · 6H <sub>2</sub> O	98	Catalyst raw material
Cobalt Sulfate	CoSO <sub>4</sub> · 7H <sub>2</sub> O	99	Plating, Catalyst raw material
Cobalt Carbonate (basic)	xCoCO <sub>3</sub> · yCo(OH) <sub>2</sub> · zH <sub>2</sub> O	Co :43~47	Catalyst raw material, Pigment
Cobalt Acetate	Co(CH <sub>3</sub> COO) <sub>2</sub> · 4H <sub>2</sub> O	98	Catalyst raw material
Cobalt Sulfamate (50%)	Co(NH <sub>2</sub> SO <sub>3</sub> ) <sub>2</sub> · 4H <sub>2</sub> O (soln.)	50	Electroforming, Plating
Cobalt Bromide (70%)	CoBr <sub>2</sub> · 6H <sub>2</sub> O (soln.)	70	Catalyst raw material

### ZINC COMPOUNDS

Zinc Nitrate *	Zn(NO <sub>3</sub> ) <sub>2</sub> · 6H <sub>2</sub> O	99	Dyestuff, Catalyst raw material
Zinc Cyanide *	Zn(CN) <sub>2</sub>	Zn :54	Plating
Zinc Acetate *	Zn(CH <sub>3</sub> COO) <sub>2</sub> · 2H <sub>2</sub> O	98	Catalyst raw material

### CHROMIUM COMPOUNDS

Chromium Chloride (40%)	CrCl <sub>3</sub> (soln.)	40	Dyestuff, Surface treatment
Chromium Nitrate (35%)	Cr(NO <sub>3</sub> ) <sub>3</sub> (soln.)	35	Catalyst raw material, Surface treatment
Chromium Sulfate (40%)	Cr <sub>2</sub> (SO <sub>4</sub> ) <sub>3</sub> (soln.)	40	Dyestuff, Surface treatment
Chromium Acetate	Cr(CH <sub>3</sub> COO) <sub>3</sub> (soln.)	44~46	Dyestuff
Chromium Phosphate	CrPO <sub>4</sub> (soln.)	Cr:6.4~6.6	Surface treatment

### MANGANESE COMPOUNDS

Manganese Chloride	MnCl <sub>2</sub> · 4H <sub>2</sub> O	97	Catalyst raw material
Manganese Nitrate (50%)	Mn(NO <sub>3</sub> ) <sub>2</sub> (soln.)	50	Catalyst raw material, Battery
Manganese Acetate	Mn(CH <sub>3</sub> COO) <sub>2</sub> · 4H <sub>2</sub> O	99	Catalyst raw material

### ANTIMONY COMPOUNDS

Antimony Trichloride	SbCl <sub>3</sub>	99	Catalyst raw material, Pigment, Electronics
Antimony Pentachloride	SbCl <sub>5</sub>	98	Catalyst raw material

### BISMUTH COMPOUNDS

Bismuth Nitrate	Bi(NO <sub>3</sub> ) <sub>3</sub> · 5H <sub>2</sub> O	98	Catalyst raw material
Bismuth Oxide	Bi <sub>2</sub> O <sub>3</sub>	99	Electronics

\* Sourced Product

(soln.): Aqueous solution

ITEM	CHEMICAL FORMULA	PURITY(min.%)	MAIN APPLICATION
Bismuth Oxide S	Bi <sub>2</sub> O <sub>3</sub>	98.5	Electronics
Bismuth Oxide FP	Bi <sub>2</sub> O <sub>3</sub>	99	Electronics, Catalyst raw material
Bismuth Subcarbonate	(BiO) <sub>2</sub> CO <sub>3</sub> · 1/2H <sub>2</sub> O	98	Catalyst raw material

#### OTHER COMPOUNDS

Lithium Acetate	LiCH <sub>3</sub> COO · 2H <sub>2</sub> O	97	Catalyst raw material
Lithium Sulfamate (50%)	LiNH <sub>2</sub> SO <sub>3</sub> (soln.)	50.0~51.0	Plating
Cresol-sulfonic Acid	C <sub>7</sub> H <sub>8</sub> O <sub>4</sub> S	85	Metal surface treatment
Cresol-sulfonic Acid	C <sub>7</sub> H <sub>8</sub> O <sub>4</sub> S (soln.)	63	Metal surface treatment
Phenol-sulfonic Acid	C <sub>6</sub> H <sub>6</sub> O <sub>4</sub> S (soln.)	65	Metal surface treatment
Potassium Pyrophosphate *	K <sub>4</sub> P <sub>2</sub> O <sub>7</sub>	98	Plating
Ferrous Chloride *	FeCl <sub>2</sub> · nH <sub>2</sub> O	99	Catalyst raw material
Ferrous Sulfamate (40%)	Fe(NH <sub>2</sub> SO <sub>3</sub> ) <sub>2</sub> · 5H <sub>2</sub> O (soln.)	40	Electroforming, Plating
Ferric Nitrate	Fe(NO <sub>3</sub> ) <sub>3</sub> · 9H <sub>2</sub> O	98	Catalyst raw material

\* Sourced Product

(soln.): Aqueous solution

#### METAL ACETYLACETONATE (Trade Name:NA CEM)

ITEM	CHEMICAL FORMULA	METALCONTENT (Theoretical%)	APPEARANCE
NACEM Aluminum	Al(C <sub>5</sub> H <sub>7</sub> O <sub>2</sub> ) <sub>3</sub>	8.31	Whitish crystalline powder
NACEM Chromium	Cr(C <sub>5</sub> H <sub>7</sub> O <sub>2</sub> ) <sub>3</sub>	14.88	Red-violet crystalline powder
NACEM Cobalt (III)	Co(C <sub>5</sub> H <sub>7</sub> O <sub>2</sub> ) <sub>3</sub>	16.54	Dark green crystalline powder
NACEM Copper	Cu(C <sub>5</sub> H <sub>7</sub> O <sub>2</sub> ) <sub>2</sub>	24.27	Blue crystalline powder
NACEM Iron (III)	Fe(C <sub>5</sub> H <sub>7</sub> O <sub>2</sub> ) <sub>3</sub>	15.81	Red-orange crystalline powder
NACEM Nickel	Ni(C <sub>5</sub> H <sub>7</sub> O <sub>2</sub> ) <sub>2</sub> · 2H <sub>2</sub> O	20.03	Light blue crystalline powder
NACEM Vanadyl	VO(C <sub>5</sub> H <sub>7</sub> O <sub>2</sub> ) <sub>2</sub>	19.21	Blue crystalline powder
NACEM Zinc	Zn(C <sub>5</sub> H <sub>7</sub> O <sub>2</sub> ) <sub>2</sub> · H <sub>2</sub> O	23.21	Whitish crystalline powder
NACEM Zirconium	Zr(C <sub>5</sub> H <sub>7</sub> O <sub>2</sub> ) <sub>4</sub>	18.70	Whitish crystalline powder
NACEM Tin	Sn(C <sub>4</sub> H <sub>9</sub> ) <sub>2</sub> (C <sub>5</sub> H <sub>7</sub> O <sub>2</sub> ) <sub>2</sub>	27.52	Red-brown liquid
NACEM Titanium	Ti(OC <sub>4</sub> H <sub>9</sub> ) <sub>2</sub> (C <sub>5</sub> H <sub>7</sub> O <sub>2</sub> ) <sub>2</sub>	12.20	Yellow brown liquid

#### APPLICATION & PROPERTIES

**APPLICATION:** Organic catalyzer. Resin-Hardening accelerator. Formation agent of oxidized metal coats on glass and ceramics. Combustion aid for heavy oil. Addition agent for petroleum oils. Disinfectant. Antifungal agent.

**PROPERTIES:** Soluble in organic solvents. Relatively stable against heat & hardly hydrolyzed chelate-compounds.

Melt, decompose, or vaporize at relatively low temperature.

ITEM	METAL CONTENT %	MAIN APPLICATION
<b>METALLIC SOAPS</b>		
<b>2-Ethylhexanoate metallic soaps (Trade Name : Nikka Octhix)</b>		
Nikka Octhix Cobalt	Co :12% , 8%, 6%	Paint & ink dryer, Catalyst, Resin-hardening accelerator
Nikka Octhix Lead	Pb:24%, 20%, 17%	Lubricating oil additives, Resin-hardening accelerator
Nikka Octhix Manganese	Mn :8%	Paint & ink dryer, Catalyst, Combustion aid
Nikka Octhix Zinc	Zn:18%, 15%, 8%	Paint & ink dryer, Lubricating oil additives, Resin stabilizer
Nikka Octhix Calcium	Ca :5%	Paint dryer, Resin stabilizer, Lubricating oil additives
Nikka Octhix Tin	Sn <sup>2+</sup> :28%	Resin-hardening accelerator
Dibutyl Dioctoate Stannane	Sn <sup>4+</sup> :10%	Resin-hardening accelerator
Nikka Octhix Potassium	K : 10%	Resin-hardening accelerator
Nikka Octhix Nickel	Ni : 11%, 10%	Catalyst
Nikka Octhix Zirconium	Zr :12%	Paint & ink dryer
Nikka Octhix Iron	Fe :6%	Paint & ink dryer, Combustion aid
Nikka Octhix Barium	Ba :15%	Ink dryer
<b>PA Series</b>		
PA-101A, 202A, 203A		Resin-hardening accelerator
<b>PUCAT Series</b>		
PUCAT 28, 25, B7		Catalyst, Resin-hardening accelerator
<b>Neodecanoate metallic soaps</b>		
Zinc Neodecanoate	Zn :8%	Paint & ink dryer, Catalyst
Copper Neodecanoate	Cu :5%	
Bismuth Neodecanoate	Bi :16%	
Cobalt Neodecanoate	Co :6%	
Manganese Neodecanoate	Mn :6%	

ITEM	MAIN APPLICATION/FUNCTION
<b>ELECTROPLATING BRIGHTENERS/ADDITIVES</b>	
<b>Nickel Plating Brightener</b>	
NICKELIGHT series	Still baths, One-solution type
NICKELIGHT MIGHTY series	Still baths, One-solution type
NICKELIGHT UNI series	Still baths, One-solution type
NICKELIGHT LP	Barrel baths, One-solution type
NICKELIGHT ROTOR series	Barrel baths, One-solution type
NICKELIGHT 98-1	Still baths, Two-solution type
ROTOR 98-1	Barrel baths, Two-solution type
<b>Brightener for Nickel Sulfamate</b>	
NSF-E	Hardness 550 to 650(Hv)/Bright
NSF-X	Hardness 180 to 220(Hv)/Mat
NSF-H-1 to H-5	Hardness 300 to 550(Hv)/Mat to Bright
<b>Metallic Impurities Elimination</b>	
NIKKA-CLEAN O, R	Metallic impurities remover for nickel plating baths

ITEM	MAIN APPLICATION/FUNCTION
<b>ELECTROPLATING BRIGHTENERS/ADDITIVES</b>	
<b>Pit Prevention</b>	
<b>PITLESS</b>	Nickel plating baths/Pit prevention
<b>Copper Plating Brightener</b>	
<b>KUPPELIGHT (F, HL, MP, RH)</b>	Copper sulfate plating brighteners/additives
<b>PYRONIKKA ES series</b>	Copper pyrophosphate plating baths Concentrated PYRONIKKA ES (CONC.) is available.
<b>Tin-Cobalt Alloy plating</b>	
<b>PYROALLOY SC process</b>	Still and barrel baths, Chromium-colored coat
<b>Tin-Nickel Alloy plating</b>	
<b>PYROALLOY SN process</b>	Still and barrel baths, Stainless steel -colored coat
<b>NIKKA BLACK process</b>	Still and barrel baths, Black coat
<b>Copper-Tin-Zinc Alloy plating</b>	
<b>NIKKA-CSZ process</b>	Still and barrel baths, Silvery white coat
<b>ETCHANT AGENT</b>	
<b>Nickel selective etchant</b>	Nickel etchant
<b>FLICKER</b>	Nickel- Chrome etchant
<b>Copper selective etchant</b>	Copper etchant
<b>Cupric Chloride (50% soln.)</b>	Copper etchant
<b>Etchant for Chromium</b>	Chrome etchant
<b>50% CAN Solution</b>	Chrome etchant
<b>Chemical polishing liquid for copper alloy</b>	Chemical polishing for Copper alloy
<i>(soln.): Aqueous solution</i>	
<b>ANODIZED ALUMINUM TREATMENT</b>	
<b>Almite Sealer</b>	Sealing agent for anodizing. Powder type.
<b>Almite Sealer Liquid</b>	Sealing agent for anodizing. Liquid type.
<b>NIKKA-ASL70</b>	Sealing agent for anodizing. Mid-temperature (70 °C) type
<b>MLS238 SEALER</b>	Nickel-free sealing agent for anodizing
<b>ELECTROLESS NICKEL PLATING</b>	
<b>NICKEL BOOMER series</b>	

※ Please feel free to contact our sales for details.

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