PRODUCTS

日本化学産業
NIHON KAGAKU SANGYO
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ITEM	CHEMICAL FORMULA	PURITY(min.%)	MAIN APPLICATION
COPPER COMPOUNDS			
Cuprous Chloride *	CuCl	98.0	Pigment, Catalyst raw material
Cupric Chloride	$CuCl_2 \cdot 2H_2O$	97.0	Pigment, Catalyst raw material
Cupric Chloride Anhydride	$CuCl_2$	98.0	Pigment, Catalyst raw material
Cupric Ammonium Chloride	$CuCl_2 \cdot 2NH_4Cl \cdot 2H_2O$	95.0	Fixing agent for dyestuff
Cupric Nitrate *	$Cu(NO_3)_2 \cdot 3H_2O$	99.0	Catalyst, Combustion aid
Cupric Sulfate *	$CuSO_4 \cdot 5H_2O$	98.5	Plating
Cuprous Cyanide *	CuCN	99.0	Plating
Sodium Copper Cyanide *	$Na_2[Cu(CN)_3] \cdot 3H_2O$	95.0	Plating
Potassium Copper Cyanide *	$K_2[Cu(CN)_3]$	95.0	Plating
Cupric Carbonate(basic)	$xCuCO_3 \cdot yCu(OH)_2 \cdot zH_2O$	Cu: 50.0, 55.0	Catalyst, Plating
Cupric Acetate *	$Cu(CH_3COO)_2 \cdot H_2O$	95.0	Catalyst, Dyestuff
Cuprous Iodide	CuI	99.0	Heat stabilizer, Conductive material
Cuprous Oxide *	Cu_2O	Cu: 86.0	Marinepaint, Pigment
Cupric Oxide	CuO	98.5	Glass, Ceramics
Cupric Oxide DC	CuO	Cu: 73.0	Plating
Cupric Pyrophosphate *	$Cu_2P_2O_7 \cdot 4H_2O$	99.0	Plating
Cupric Bromide *	$CuBr_2$	97.0	Agricultural chemicals
TIN COMPOUNDS			
Stannous Chloride	$SnCl_2 \cdot 2H_2O$	98.0	Plating, Antistripping agent
Stannous Chloride (45%)	$SnCl_2 \cdot 2H_2O$ (soln.)	45	Plating, Catalyst raw material
Stannic Chloride Anhydride	$SnCl_4$	99.5	Catalyst raw material, Electronics, Glass
Stannous Sulfate	$SnSO_4$	98.0	Electrolytic pigmentation, Plating
Sodium Stannate	$Na_2SnO_3 \cdot 3H_2O$	Sn: 36.0, 40.0, 42.0	Plating
Potassium Stannate	$K_2SnO_3 \cdot 3H_2O$	Sn: 39.0	Plating
Stannous Pyrophosphate	$Sn_2P_2O_7$	97.0	Plating, Alloy plating
Stannous Oxide	SnO	Sn^{2+}: 86.0	Pigment, Plating
Stannic Oxide	SnO_2	99.0	Electronics
Meta Stannic Acid	H_2SnO_3	95.0	Pigment, Flame retardant

* Sourced Product (soln.): Aqueous solution

ITEM	CHEMICAL FORMULA	PURITY(min.%)	MAIN APPLICATION
NICKEL COMPOUNDS			
Nickel Chloride	$NiCl_2 \cdot 6H_2O$	Ni: 24.0	Plating, Dyestuff
Nickel Nitrate	$Ni(NO_3)_2 \cdot 6H_2O$	98.0	Battery, Catalyst raw material
Nickel Ammonium Sulfate	$(NH_4)_2Ni(SO_4)_2 \cdot 6H_2O$	95.0	Plating
Potassium Nickel Cyanide	$K_2[Ni(CN)_4] \cdot H_2O$	95.0	Plating
Nickel Carbonate (basic)	$xNiCO_3 \cdot yNi(OH)_2 \cdot zH_2O$	Ni: 35, 44	Plating, Catalyst raw material
Nickel Acetate	$Ni(CH_3COO)_2 \cdot 4H_2O$	95.0	Anodized aluminum sealing
Nickel Sulfamate	$Ni(NH_2SO_3)_2 \cdot 4H_2O$	96.0	Plating, Electroforming
Nickel Sulfamate (60%), (65%)	$Ni(NH_2SO_3)_2 \cdot 4H_2O$ (soln.)	60.0, 65.0	Plating, Electroforming
Nickel Bromide (50%)	$NiBr_2 \cdot 6H_2O$ (soln.)	50.0–51.0	Plating
COBALT COMPOUNDS			
Cobalt Chloride	$CoCl_2 \cdot 6H_2O$	98.0	Paint, Plating
Cobalt Nitrate	$Co(NO_3)_2 \cdot 6H_2O$	98.0	Catalyst raw material
Cobalt Sulfate	$CoSO_4 \cdot 7H_2O$	99.0	Plating, Catalyst raw material
Cobalt Carbonate (basic)	$xCoCO_3 \cdot yCo(OH)_2 \cdot zH_2O$	Co: 43.0–47.0	Catalyst raw material, Pigment
Cobalt Acetate	$Co(CH_3COO)_2 \cdot 4H_2O$	98.0	Catalyst raw material
Cobalt Sulfamate (50%)	$Co(NH_2SO_3)_2 \cdot 4H_2O$ (soln.)	50.0–50.5	Electroforming, Plating
Cobalt Bromide (70%)	$CoBr_2 \cdot 6H_2O$ (soln.)	Co: 12.6	Catalyst raw material
ZINC COMPOUNDS			
Zinc Nitrate *	$Zn(NO_3)_2 \cdot 6H_2O$	99.0	Dyestuff, Catalyst raw material
Zinc Cyanide *	$Zn(CN)_2$	Zn: 54.0	Plating
Zinc Acetate *	$Zn(CH_3COO)_2 \cdot 2H_2O$	98.0	Catalyst raw material
CHROMIUM COMPOUNDS			
Chromium Chloride (40%)	$CrCl_3$ (soln.)	40.0	Dyestuff, Surface treatment
Chromium Nitrate (35%)	$Cr(NO_3)_3$ (soln.)	35.0	Catalyst raw material, Surface treatment
Chromium Sulfate (40%)	$Cr_2(SO_4)_3$ (soln.)	40.0	Dyestuff, Surface treatment
Chromium Acetate	$Cr(CH_3COO)_3$ (soln.)	44.0–46.0	Dyestuff
Chromium Phosphate	$CrPO_4$ (soln.)	Cr: 6.4–6.6	Surface treatment
MANGANESE COMPOUNDS			
Manganese Chloride	$MnCl_2 \cdot 4H_2O$	97.0	Catalyst raw material
Manganese Nitrate (50%) *	$Mn(NO_3)_2$ (soln.)	50.0	Catalyst raw material, Battery
Manganese Acetate	$Mn(CH_3COO)_2 \cdot 4H_2O$	99.0	Catalyst raw material
Manganese Carbonates *	$MnCO_3 \cdot nH_2O$	Mn: 43.0	Electronics
ANTIMONY COMPOUNDS			
Antimony Trichloride	$SbCl_3$	99.0	Catalyst raw material, Pigment, Electronics
BISMUTH COMPOUNDS			
Bismuth Nitrate	$Bi(NO_3)_3 \cdot 5H_2O$	98.0	Catalyst raw material
Bismuth Oxide	Bi_2O_3	99.0	Electronics
Bismuth Oxide S	Bi_2O_3	98.5	Electronics
Bismuth Oxide FP	Bi_2O_3	99.0	Electronics, Catalyst raw material
Bismuth Subcarbonate	$(BiO)_2CO_3 \cdot {}^1/_2H_2O$	98.5	Catalyst raw material

* Sourced Product (soln.): Aqueous solution

ITEM	CHEMICAL FORMULA	PURITY(min.%)	MAIN APPLICATION
OTHER COMPOUNDS			
Lithium Acetate	$LiCH_3COO \cdot 2H_2O$	97.0	Catalyst raw material
Lithium Sulfamate (50%)	$LiNH_2SO_3$ (soln.)	50.0−51.0	Plating
Lithium Chloride (40%)	LiCl (soln.)	40.0−41.0	Functional material
Cresol-sulfonic Acid	$C_7H_8O_4S$	85.0	Metal surface treatment
Cresol-sulfonic Acid	$C_7H_8O_4S$ (soln.)	63.0	Metal surface treatment
Phenol-sulfonic Acid	$C_6H_6O_4S$ (soln.)	65.0	Metal surface treatment
Potassium Pyrophosphate *	$K_4P_2O_7$	98.0	Plating
Ferrous Chloride *	$FeCl_2 \cdot nH_2O$	Fe^{2+}: 28.0	Catalyst raw material
Ferrous Sulfamate (40%) *	$Fe(NH_2SO_3)_2 \cdot 5H_2O$ (soln.)	40.0	Electroforming, Plating
Ferric Nitrate	$Fe(NO_3)_3 \cdot 9H_2O$	98.0	Catalyst raw material

* Sourced Product (soln.): Aqueous solution

ITEM	CHEMICAL FORMULA	METALCONTENT (Theoretical%)	MAIN APPLICATION
METAL ACETYLACETONATE (Trade Name: NĀCEM)			
NACEM Aluminum	$Al(C_5H_7O_2)_3$	8.31	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.
NACEM Chromium	$Cr(C_5H_7O_2)_3$	14.88	
NACEM Cobalt (Ⅲ)	$Co(C_5H_7O_2)_3$	16.54	
NACEM Copper	$Cu(C_5H_7O_2)_2$	24.27	
NACEM Iron (Ⅲ)	$Fe(C_5H_7O_2)_3$	15.81	
NACEM Nickel	$Ni(C_5H_7O_2)_2 \cdot 2H_2O$	20.03	
NACEM Vanadyl	$VO(C_5H_7O_2)_2$	19.21	
NACEM Zinc	$Zn(C_5H_7O_2)_2 \cdot H_2O$	23.21	
NACEM Magnesium	$Mg(C_5H_7O_2)_2(H_2O)_2$	9.40	
NACEM Zirconium	$Zr(C_5H_7O_2)_4$	18.70	
NACEM Tin	$Sn(C_4H_9)_2(C_5H_7O_2)_2$	27.52	
NACEM Titanium	$Ti(OC_4H_9)_2(C_5H_7O_2)_2$	12.20	

ITEM	METAL CONTENT %	MAIN APPLICATION
METALLIC SOAPS		
2-Ethylhexanoate metallic soaps (Trade Name：Nikka Octhix)		
Nikka Octhix Cobalt	Co: 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
Dibutyltin di-Octoate	Sn^{4+}: 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
PA Series		
PA-101A, 202A, 203A	—	Resin-hardening accelerator

ITEM	METAL CONTENT %	MAIN APPLICATION
METALLIC SOAPS		
PUCAT® Series		
PUCAT 28, 25, B7	Bi: 28%, 25%, 7%	Catalyst, Resin-hardening accelerator
Neodecanoate metallic soaps		
Zinc Neodecanoate	Zn: 8%	Paint & ink dryer, Catalyst
Copper Neodecanoate	Cu: 5%	
Bismuth Neodecanoate	Bi: 16%	
Cobalt Neodecanoate	Co: 6%	
Manganese Neodecanoate	Mn: 6%	
ELECTROPLATING BRIGHTENERS/ADDITIVES		
NICKELIGHT series	Nickel Plating Brightener	Still baths, One-solution type
NSF-H-1 to H-6, E, X	Brightener for Nickel Sulfamate	
NIKKA-CLEAN O, R	Metallic Impurities Elimination	Metallic impurities remover for nickel plating baths
PITLESS-S	Pit prevention	Nickel plating baths/Pit prevention
KUPPELIGHT (F, HL, MP, RH)	Copper Plating Brightener	Copper sulfate plating brighteners/additives
PYRONIKKA ES series	Copper Plating Brightener	Copper pyrophosphate plating baths Concentrated PYRONIKKA ES (CONC.) is available.
PYROALLOY SC process	Tin-Cobalt alloy plating.	Still and barrel baths, Chromium-colored coat
PYROALLOY SN process	Tin-Nickel alloy plating.	Still and barrel baths, Stainless steel -colored coat
NIKKA BLACK process	Tin-Nickel Alloy plating	Still and barrel baths, Black coat
NIKKA-CSZ process	Copper-Tin-Zinc alloy plating.	Still and barrel baths, Silvery white coat
Nickel Sulfamate Plating		
NI-BF process		Boron Free, Environmentally friendly
Nickel Sulfamate		Crystal
60% Nickel Sulfamate Solution		General-purpose solution type
65% Nickel Sulfamate Solution		Concentrated solution type
60% Nickel Sulfamate Solution (High purity)		High purity solution type
ETCHANT AGENT		
Nickel selective etchant		Nickel etchant
FLICKER		Nickel- Chrome etchant
Copper selective etchant		Copper etchant
50% Cupric Chloride Solution		Copper etchant
Etchant for Chromium		Chrome etchant
50% CAN Solution		Chrome etchant
Alkaline chrome etching solution		Chrome etchant
ANODIZED ALUMINUM TREATMENT		
Almite Sealer		Sealing agent for anodizing. Powder type.
Almite Sealer Liquid		Sealing agent for anodizing. Liquid type.
NIKKA-ASL70		Sealing agent for anodizing. Mid-temperature (70 °C) type
MLS238 SEALER		Nickel-free sealing agent for anodizing
MLS349 SEALER		Nickel-free sealing agent for anodizing
ELECTROLESS NICKEL PLATING		
NICKEL BOOMER series		

Please feel free to contact our sales for details.

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