Great Success Chemtech

Global Inspiration
GyeongGi-Do

Improved Living Daily

Great Success Chemtech
Product Guide

Greeting

GS Chemtech Co., Ltd. was founded in 2002 as a dealer of chemicals for electro-plating and surface finishing. We supply surface finishing chemicals and technical services to both automobile parts industry, electronic component industries and various fields of industries.
We are trying our best efforts to respond to rapidly changing plating technology with the belief that our customer's success is our pleasure. As a result of our efforts, we acquired GENERAL MOTORS' chemical supplier approval based on our close cooperation with the HANYANG chemical Co., Ltd. Based on our accumulated technology, we will try our best to help customer's cost reduction and providing better technical services.
If you have any problem with plating chemical, please feel free to contact with us proved quality and better technical services.

This is our promise that never change.
Thank you

GS Chemtech Co., Ltd.
H. Y. Lee President

History

Jan 2002	GS chemtech Co.,Ltd established
Sep 2004	Established consortium with KOREA Polytec II University
Jan 2005	Technical cooperation with Hanyang Chemical
Sep 2005	Gschemtech Co.,Ltd-CHINA established in Yantai city(CHINA)
Oct 2007	Expanded operation and move to Ansan Plant
Mar 2010	Acquired GENERAL MOTORS chemical supplier approval

Zinc and Zinc Alloys

- Cleaner
- Zinc-Nickel plating with 12~18% w/v Nickel in the alloy
- Zinc-Nickel plating with 4~9% w/v Nickel in the alloy
- Alkaline, Non-cyanide process for rack and barrel plating
- Acidic zinc electrolyte for rack and barrel plating
- Chromate

GM chemical supplier approval

- GMW 3044 clear code G
- GMW 3044 clear code N
- GMW 3044 black code G
- GMW 4700 clear code G
- GMW 4700 black code G

PCB Processes

- Cleaner
- Soft Etching
- Oxide
- Acid copper plating
- Stripper

Cleaner Chemical

Product Name	Work Conditions	Characteristic
MS-CLEAN5000 (Alkali Cleaner)	MS-CLEAN5000 : 50g/L (40~80g/L) Temp : 50℃ Time : 20~30min	1. Low coat, Good Clean 2. Nitro, Phosphorus Free 3. Using Iron, Copper and another material
MS-CLEAN32 (Acid Cleaner)	MS-CLEAN32 : 100㎖/ ℓ (50-150㎖/ ℓ) Temp : 50℃ Time : 5min(4-6min)	1. Good for Copper material 2. Bubble less, Cost Low
TOP CLEAN (Alkali Cleaner, E-Cleaner)	TOP CLEAN : 50g/ ℓ (30-60g/ ℓ) Temp : 50℃(40-60℃) Time : 3-10min Current Density : 5-10ASD	1. Iron, Copper to Clean up 2. Bubble less, management good
HY-203N (Alkali Cleaner for Cu)	HY-203N : 250㎖/ ℓ (210-290㎖/ ℓ) Temp : 55℃ (50-60℃) Time : 3min (2-5min)	1. Alkali clean product for LEAD FRAME 2. Bubble less, Cost Low
#100 (Acid Cleaner use to Inhibitor)	#100 : 2㎖/ ℓ (1-3㎖/ ℓ)	1. Using to hydrochloric acid picking, sulfuric acid picking 2. After Picking corrosion preventation less

Activator/Pd Catalyst

Product Name	Work Conditions	Characteristic
MS-ACT 100 (PCB, Cu Activator)	MS-ACT 100 : 100㎖/ ℓ H2SO4(98%) : 10㎖/ ℓ Pd METAL : 10mg/ ℓ Temp : 30℃ (25-35℃) Time : 2-30min	1. Activator particle is delicate and uniform 2. Good stability
MS-50 PD (Pd Catalyst)	MS-50 PD : 150㎖/ ℓ HCl : 150㎖/ ℓ Temp : 20-30℃ Time : 1-3min	1. Can possible uniform plating 2. Good stability and continuous operation is possible

Etching Chemical

Product Name	Work Conditions	Characteristic
AT-164 (Cu Etching)	AT-164 : 100g/ ℓ (80-120g/ ℓ) H2SO4 : 50㎖/ ℓ (40-60㎖/ ℓ) Temp : 25℃ (18-30℃) Time : 10sec (5-60sec)	1. Get to Uniform DESCALE 2. Low Running-cost
MS-CE 100 (SOFT ETCHING)	MS-CE 100 : 60㎖/ ℓ H2SO4(98%) : 150g/ ℓ H2O2(35%) : 65g/ ℓ Temp : 20-30℃	1. Using easy to clean 2. Uniform intensity

Zn, Zn-Ni alloy Brighter

Product Name		Work Conditions	Characteristic
XP-2000 (Acid Zinc Brighter)		XP-2000A : 30㎖/ ℓ (25-40㎖/ ℓ) XP-2000B : 2㎖/ ℓ (1-4㎖/ ℓ) Zn : 15-35g/ ℓ KCl : 240g/ ℓ (210-260g/ ℓ) Boric acid : 25g/ ℓ (20-30g/ ℓ) pH : 5.6 (5.0-6.1) Temp : 23℃ (18-35℃) Current Density : 0.2-3ASD	1. Low coat, Good Clean 2. Nitro, Phosphorus Free 3. Using Iron, Copper and another material
XP-1000 (Zn Zincate Brigter)	BARREL	XP-1000A : 5㎖/ ℓ /XP-1000B: 4㎖/ ℓ XP-1000C : 0.1㎖/ ℓ Temp : 20-30℃ Current Density : 0.5-1.5ASD Zinc : 10g/ ℓ NaOH : 120g/ ℓ (100-140g/ ℓ)	1. Uniform plating surface thickness 2. Wide range 3. Excellent Bright 4. Easy plating solution management 5. Use for RACK, BARREL
	RACK	XP-1000A: 5㎖/ ℓ /XP-1000B: 4㎖/ ℓ XP-1000C : - Temp : 20-30℃ Current Density : 1.0-3.5ASD Zinc : 8g/ ℓ NaOH : 120g/ ℓ (100-140g/ ℓ)	
XP-3000 (Acid Zinc Brighter)	BARREL	TOP CLEAN : 50g/ ℓ (30-60g/ ℓ) Temp : 50℃ (40-60℃) Time : 3-10min Current Density : 5-10ASD	1. Proper for barrel plating 2. Life expectancy is better than other products 3. You can also collect on complex objects and castings 4. Less environmental pollution and easier wastewater treatment 5. Lower cost of production due to lower price
XNP-8000 (Zn-Ni Alloy Brighter)	BARREL	XNP-8000NI : 12㎖/ ℓ XNP-8000B : 80㎖/ ℓ XNP-8000S : 2㎖/ ℓ Nickel : 1.2g/L Temp : 20-30℃ Current Density : 0.5-1.5ASD Zinc : 8g/ ℓ NaOH : 130g/ ℓ (120-140g/ ℓ)	1. Uniform plating surface thickness 2. Wide range 3. Excellent Bright 4. Easy plating solution management 5. Use for RACK, BARREL
	RACK	XNP-8000NI : 12㎖/ ℓ XNP-8000B : 80㎖/ ℓ XNP-8000S : 2.5㎖/ ℓ Nickel : 1.2g/L Temp : 20-30℃ Current Density : 1-4ASD Zinc : 7g/ ℓ NaOH : 130g/ ℓ (120-140g/ ℓ)	
ZE-40 (Zn-Fe Alloy Brighter)		ZE-41 : 13㎖/ ℓ ZE-42 : 50㎖/ ℓ ZE-46 : 25㎖/ ℓ ZE-45 : 5.5㎖/ ℓ NaOH : 90g/ ℓ Zn : 8g/ ℓ Temp : 20-25℃ Current Density : 1-4ASD	1. Proper for either rack or barrel plating 2. Excellent ductility and adhesion 3. Suitable for substrate of complex shape

Zn, Zn-Ni alloy Chromate

Product Name		Work Conditions	Characteristic
XC-100 (Zn Cr3+ Blue Chromate)		XC-110A : 30㎖/ ℓ (25-35㎖/ ℓ) Temp : 25℃ (20-30℃) Time : 15sec (10-25sec) / pH : 2.0 (1.9-2.2) Drying Temperature : 60℃ (40~80℃)	1. Contains no hexavalent chromium 2. Can produce uniform blue color chromate 3. Forms clear and bright appearance 4. Contains fluoride ion
XC-200 (Zn Cr3+ Color Chromate)	BARREL	XC-200A : 100㎖/ ℓ (80-120㎖/ ℓ) XC-200C : 20㎖/ ℓ (0-25㎖/ ℓ) Temp : 35℃ (30-40℃) Time : 50sec (40-60sec) / pH : 2.1 (1.8-2.4) Drying Temperature : 60℃ (60~80℃)	1. Contains no hexavalent chromium 2. Meets all automotive specifications 3. Utilize for mainly barrel application 4. Forms bright red to green iridescent or yellow chromate
XC-220F (Zn Cr3+ Color Chromate)		XC-220F : 100㎖/ ℓ (80-120㎖/ ℓ) Temp : 25℃ (10-40℃) Time : 30sec (20-60sec) / pH : 2.2 (1.8-3.0) Drying Temperature : 80℃ (60-100℃)	1. Contains no hexavalent chromium 2. Produce high speedy clear chromate 3. Forms clear and bright appearance 4. Wide pH operating range 5. Contains fluoride ion 6. Easy waste water treatment
XC-210 (Zn Cr3+ Color Chromate)	RACK	XC-210A : 100㎖/ ℓ (80-120㎖/ ℓ) Temp : 30℃ (20-40℃) Time : 50sec (40-60sec) / pH : 2.0 (1.8-2.3) Drying Temperature : 50℃ (40-60℃)	1. Contains no hexavalent chromium 2. Meets all automotive specifications 3. Utilize for mainly rack application 4. Forms clean and bright appearance with iridescent or yellow color
XB-500 (Alkaline Zn Cr3+Black Chromate)		XB-500A : 60㎖/ ℓ (80-80㎖/ ℓ) XB-500C : 40㎖/ ℓ (30-100㎖/ ℓ) XB-500E : 10㎖/ ℓ (5-15㎖/ ℓ) Temp : 30℃ (25-400℃) Time : 50sec (40-60sec) / pH : 2.0 (1.8-2.2)	1. Contains no hexavalent chromium 2. Contains fluoride ion 3. Suitable for zincate zinc plating 4. Provides glossy and uniform dark green to black appearance
XB-400 (Acid Zn / Cyanide Cr3+Black Chromate)		XB-400A : 20㎖/ ℓ (10-30㎖/ ℓ) XB-400C : 80㎖/ ℓ (50-150㎖/ ℓ) Temp : 40℃ (30-50℃) Time : 40sec (30-60sec) / pH : 2.0 (1.8-2.2) Drying Temperature : 80℃ (70-100℃)	1. Contains no hexavalent chromium 2. Excellent corrosion resistance 3. Suitable for Acid and cyanide type zinc plating 4. Provides glossy and uniform dark green to black appearance 5. Provides 120hr white corrosion protection after TOPCOAT
XNB-300 (Zn-Ni alloy Cr3 + Black Chromate)		XNB-300A :150㎖/ ℓ (120-180㎖/ ℓ) XNB-300B : 50㎖/ ℓ (40-70㎖/ ℓ) Temp : 25℃ (20-30℃) Time : 40sec (30-60sec) pH : 2.0 (1.8-2.2)	1. Contains no hexavalent chromium 2. Can apply all automotive specifications 3. Applicable for barrel and rack operations 4. Provides glossy and uniform black appearance
XNW-100 (Zn-Ni alloy Cr3 + Blue Chromate)		XNW-100A :25㎖/ ℓ (20-50㎖/ ℓ) XNW-100B : 50㎖/ ℓ (40-75㎖/ ℓ) Temp : 25℃ (20-30℃) Time : 60sec (30-90sec) Air negligence : 20sec (15-25sec) pH : 4.2 (4.0-4.5)	1. Contains no hexavalent chromium 2. Meets all automotive specifications 3. Applicable for barrel and rack operations 4. Forms uniform blue chromate
XNC-200A (Zn-Ni alloy, Zn-Fe alloy Cr3 +Color Chromate)		XNC-200A : 120㎖/ ℓ (100-150㎖/ ℓ) Temp : 60℃ (50-65℃)-Zn-Ni Alloy Temp : 40℃ (30-50℃)-Zn-Fe Alloy Time : 50sec (40-60sec) pH : 1.8 (1.6-2.0)	1. Contains no hexavalent chromium 2. Forms clear and bright chromate appearance 3. Contains fluoride ion 4. Long bath life
XNB-100 (Zn-Ni Cr3+ Black Chromate)		XNB-100A : 150㎖/ ℓ (100-200㎖/ ℓ) XNB-100B : 50㎖/ ℓ (25-75㎖/ ℓ) Temp : 25℃ (20-30℃) Time : 60sec (20-90sec) pH : 2.0 (1.8-2.2) Drying Temperature : 80℃ (70-100℃)	1. Contains no hexavalent chromium 2. Can apply automotive specifications 3. Applicable for barrel and rack operations 4. Provides glossy and uniform black appearance 5. High corrosion resistance after TOPCOAT with SC-100A or SC-500

Ni-P

Product Name	Work Conditions	Characteristic
NP-200 (Middle phosphate type Ni-P)	NP-200M : 100㎖/ ℓ NP-200A : 55㎖/ ℓ Temp : 85℃ (83-88℃) Plating Speed : 14-19㎛/h pH : 4.7 (4.3-4.8) NICKEL : 5.0g/ ℓ (4.5-5.3g/ ℓ)	1. Plating possible in various material 2. Solution stability is excellent 3. Good hardness 4. Excellent corrosion resistance 5. Uniform surface
NP-500 (Low phosphate type Ni-P)	NP-200M : 200㎖/ ℓ NP-200A : 45㎖/ ℓ Temp : 90℃ (89-91℃) Plating Speed : 8-10㎛/h pH : 6.0 (5.8-6.2) NICKEL : 4.5g/ ℓ (4.0-5.0g/ ℓ)	1. Plating possible in various material 2. Solution stability is excellent 3. Good hardness 4. Excellent corrosion resistance 5. Uniform surface
NP-400 (High phosphate type Ni-P)	NP-400M : 200㎖/ ℓ NP-400A : 50㎖/ ℓ Temp : 90℃ Plating Speed : 12㎛/h pH : 4.6 NICKEL : 5.0g/ ℓ	1. No SUS tank in precipitation 2. Solution stability is excellent 3. Good hardness 4. Excellent corrosion resistance 5. Uniform surface
MS-NI P (Ni,P, PIFF, Complex Plating Chemical)	MS-NI P M : 200㎖/ ℓ MS-NI P A : 50㎖/ ℓ MS-NI P D : 4.5g/ ℓ Temp : 90℃ (88-92℃) pH : 5.0 (5.0-5.2) NICKEL : 5.0g/ ℓ (4.8-5.2g/ ℓ) Plating Speed : 8-10㎛/h	1. Good hardness 2. Solution stability is excellent 3. Excellent oxidation 4. Excellent corrosion resistance
NP-800 (Middle phosphate type Ni-Boron)	NP-800A : 60㎖/ ℓ NP-800B : 60㎖/ ℓ NP-800C : 60㎖/ ℓ Temp : 64℃ (63-65℃) Plating Speed : 6.5㎛/h pH : 6.5 (6.0-6.5) NICKEL : 5.7g/ ℓ (5.5-6.0g/ ℓ)	1. After process good result 2. Solution stability is excellent 3. Good hardness 4. Excellent corrosion resistance
MP-50 (Use EMI Ni-P)	MP-50A : 50㎖/ ℓ MP-50B : 50㎖/ ℓ MP-50C : 100㎖/ ℓ Temp : 32℃ (28-35℃) Time : 5min (3-8min) pH : 9.0 (8.5-9.5) NICKEL : 7.0g/ ℓ (4.0-7.5g/ ℓ)	1. Lead Free 2. Solution stability is excellent 3. Good hardness 4. Excellent corrosion resistance
MS-NW (P-W-Ni Plating)	MS-NW M : 960㎖/ ℓ MS-NW MI : 40㎖/ ℓ Temp : 85℃ (80-90℃) pH : 9.0 (8.6-9.2) NICKEL : 3.4g/ ℓ (3.0-3.5g/ ℓ)	1. Tungsten(W) in plating surfact 7-11% content 2. Solution stability is excellent 3. Good hardness 4. Excellent corrosion resistance

Copper plating

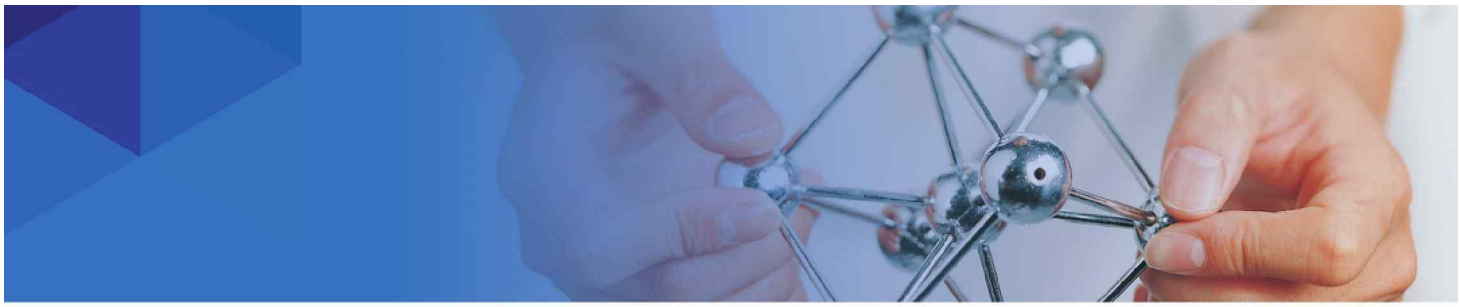
Product Name	Work Conditions	Characteristic
EC-56 (EMI SHIELDING type Electroless Copper)	EC-56A : 3% EC-56B : 10% EC-56C : 0.25% EC-56D : 0.2% NaOH(25%) : 3% HCHO(37%) : 1.1% Temp : 46℃ (45-48℃) Plating Time : 8-12min	1. Excellent adhesion 2. Solution stability is excellent 3. Excellent oxidation 4. Excellent corrosion resistance
AC-25M (Electric Cu Brighter)	AC-25M : 2.5㎖/ ℓ Copper sulphate(5Na) : 75g/ ℓ H2SO4(98%) : 190g/ ℓ Chlorine ion : 60mg/ ℓ Temp : 25℃ Current Density : 2.5ASD (1-10ASD)	1. Excellent throwing power 2. Excellent Bright 3. Using easy by 1 solution type

Silver plating

Product Name	Work Conditions	Characteristic
MS-AG 200 (CN Free electroless Ag Plating)	MS-AG 200 : 1,000㎖/ ℓ (Ag : 3.0g/ ℓ) Temp : 40℃ (30-50℃) pH : < 1.0	1. Cyanide Free 2. Solution stability is excellent 3. Cost less 4. Excellent plating adhesion
MS-SILVER 100S (High Speed Ag Plating type Brighter)	MS-SILVER 100 M/U SALT : 90g/ ℓ MS-SILVER 100 B : 13.2㎖/ ℓ MS-SILVER 100 R1 : 13.2-26.4㎖/ ℓ MS-SILVER 100 S1 : 2.6㎖/ ℓ Potassium Silver Cyanide : 120g/ ℓ Temp : 25℃ / pH : 8-9	1. High speed Ag Plating 2. Solution stability is excellent

Gold plating

Product Name	Work Conditions	Characteristic
MS-GOLD M (Replace type Au Plating)	MS-GOLD M : 50g/ ℓ Au : 2g/ ℓ (1-4g/ ℓ) Temp : 85℃ (80-95℃) pH : 4.5 (4.0-5.0) Specific gravity : 4.2Be (3.5-5.0Be)	1. Excellent adhesion. 2. Solution stability is excellent 3. Good Bright 4. Can get a uniform surface
AUROLESS 311 (Deoxidation type Au Plating)	AUROLESS 311 : 500㎖/ ℓ Au : 3.0g/ ℓ (1-4g/ ℓ) Temp : 73℃ (70-80℃) Plating Speed : 4.8㎛/h	1. Excellent adhesion. 2. Solution stability is excellent 3. Good Bright 4. Can get a uniform surface
AUROLESS 7000 (Acid Au-Co Au Brigter)	AUROLESS 7000 BS : 700㎖/ ℓ AUROLESS 7000 A : 200㎖/ ℓ Au : 4.0g/ ℓ (0.5-10g/ ℓ) Temp : 50℃ (45-55℃) pH : 4.2 (3.9-4.8) Current Density : 0.1-10ASD	1. Low acid Au plating solution. 2. Wide range current density 3. Use for REEL TO REEL, RACK, BARREL



Tin(Sn) plating

Product Name	Work Conditions	Characteristic
NT-500 (Neutral Tin Plating)	MS-TIN(Sn:100g/ℓ) : 150mℓ/ℓ NT-500 MAKE UP : 500mℓ/ℓ Temp : 25℃ (20-30℃) pH : 3.2 (3.0-4.0) / Sn : 15g/ℓ (12-18g/ℓ) Plating Speed : 0.25㎛/min, 0.5ASD	1. Neutral plating solution and Chip plating is possible 2. Excellent plating adhesion 3. Thickness variation is low
LSM-350 (Neutral Tin Plating)	MS-TIN(Sn:300g/ℓ) : 50mℓ/ℓ LSM-350 MAKE UP : 350mℓ/ℓ LSM-350 E : 135mℓ/ℓ Temp : 25℃ (20-30℃) pH : 3.5 (3.0-4.0) / Sn : 15g/ℓ (12-18g/ℓ) Plating Speed : 0.25㎛/min, 0.5ASD	1. Neutral plating solution and Chip plating is possible 2. Excellent plating adhesion 3. Thickness variation is low
MS-LSM25 (Stannous Sulfate Additions)	Stannous Sulfate : 30g/ℓ H2SO4(98%) : 110mℓ/ℓ MS-LSM25 : 40mℓ/ℓ Temp : 20℃ (15-25℃) Current Density : 0.5-3ASD Sn : 15g/ℓ (12-18g/ℓ) Plating Speed : 1㎛/min, 2ASD	1. Using a wide range current density 2. Excellent plating adhesion 3. Possible Semi-Brighter Plating 4. Using electronic components
MS-LSB (Stannous Sulfate Additions)	Stannous Sulfate : 30g/ℓ H2SO4(98%) : 110mℓ/ℓ MS-LSB : 40mℓ/ℓ Temp : 20℃ (15-25℃) Current Density : 0.5-3ASD Sn : 15g/ℓ (12-18g/ℓ) Plating Speed : 1㎛/min, 2ASD	1. Using a wide range current density 2. Excellent plating adhesion 3. Possible Semi-Brighter Plating 4. Using electronic components
MB-HSM (Sn-Bi Semi, Satin Additions)	Sn : 78g/ℓ (60-85g/ℓ) MS-ACID : 140mℓ/ℓ (110-150mℓ/ℓ) MB-HSM A : 30mℓ/ℓ (20-50mℓ/ℓ) MB-HSM B : 10mℓ/ℓ (5-20mℓ/ℓ) Temp : 40℃ (30-50℃) Current Density : 5-20ASD	1. Using a wide range current density 2. Excellent plating adhesion 3. Possible Semi-Brighter Plating 4. Using electronic components 5. No WHISKER

Phosphate Coating

Product Name	Work Conditions	Characteristic
BENIOL #P-150 (Phosphate Coating)	BENIOL #P-150M : 120g/ ℓ Temp : 70-380℃ Time : 7-10min	1. High binding properties 2. Crack prevention effective 3. Good anti-corrosion
BENIOL #B-475 (Antifriction)	BENIOL #B-475 : 80g/ ℓ Temp : 80-90℃ Time : 5min	1. Excellent lubricity
MOLYSOL #430 (Antifriction)	MOLYSOL #430 : 2 : 1 (water : Chemical) Temp : 65-70℃ pH : 7.5-8.5	1. Plating possible in various material 2. Solution stability is excellent 3. Good hardness
BENIOL #T-424 (Pre-dip Chemical)	BENIOL #T-424 : 10g/ ℓ Temp : 60℃ Time : 1min pH : 8.5-9.0	1. Rust inhibition.
BENIOL #K-104 (Surface conditioner)	BENIOL #K-104 : 5-10㎖/ ℓ Temp : 25℃ Time : 20-120sec	1. Sludge less 2. Good adhesion and fast time 3. Surface good

Inorganic / Organic Coating

Product Name	Work Conditions	Characteristic
SC-100 (After Black Chromate an inorganic coating)	SC-100A : 200ml/L (150~250ml/L) SC-100B : 1ml/L (0.5~1.2ml/L) Temp : 55℃ (50~60℃) Time : 20sec (15~30sec) pH : 4.0 (3.5~4.5)	1. Excellent corrosion tesistance for Zn, Zn-Ni Alloy 2. Excellent gloss 3. Contains no hexavalent chromium
SC-500 (Organic Coating)	SC-500 : 40~100% Temp : 25℃ (20~30℃) Time : 15sec (10~20sec) Dry Time : 20min (10~30min) Dry Temp : 80℃ (70~120℃)	1. Contains no hexavalent chromium 2. Excellent corrosion tesistance 3. Torque tension can adjust
SC-500B (Organic Coating)	SC-500B : 20~100% Temp : 25℃ (20~30℃) Time : 15sec (10~20sec) Dry Time : 20min (10~30min) Dry Temp : 80℃ (70~120℃)	1. Contains no hexavalent chromium 2. Excellent corrosion tesistance 3. Torque tension can adjust 4. Improve appearance for Black Chromate
SC-600 (Organic Coating)	SC-600 : 15~70% Temp : 25℃ (20~30℃) Time : 15sec (10~20sec) Dry Time : 20min (10~30min) Dry Temp : 80℃ (70~120℃)	1. Contains no hexavalent chromium 2. Excellent corrosion tesistance 3. Torque tension can adjust
SC-600B (Organic Coating)	SC-600B : 15~70% Temp : 25℃ (20~30℃) Time : 15sec (10~20sec) Dry Time : 20min (10~30min) Dry Temp : 80℃ (70~120℃)	1. Contains no hexavalent chromium 2. Excellent corrosion tesistance 3. Torque tension can adjust 4. Improve appearance for Black Chromate

Another Chemicals

Product Name	Work Conditions	Characteristic
MS-STRIP Au (Au Stripper)	MS-STRIP Au : 1,000㎖/ ℓ Temp : 25℃ (20-30℃) Stipper Speed : 1㎛/min	1. Room Temperature operation possible 2. No material impact
MS-STRIP 200 (Ni-P Stripper)	MS-STRIP 200A : 60g/ ℓ MS-STRIP 200B : 500㎖/ ℓ NaOH : 50g/ ℓ Temp : 80℃	1. Excellent strip 2. No material impact
SG-1 (Sealing Chemical)	SG-1 : 100㎖/ ℓ Temp : 60℃ (45-65℃) Time : 10sec (10-300sec)	1. Good Anti Tanish. 2. Electrical conductivity and soldering does not affect 3. Low Toxic
SN-150 (Tin Plating Anti Tarnish)	SN-150 : 100㎖/ ℓ Temp : 50℃ (45-65℃) Time : 10sec (10-30sec)	1. Easy management 2. Improvement corrosion 3. Low Toxic
TANOL-SR (Ag Plating Anti Tarnish)	TANOL-SR : 300㎖/ ℓ Temp : 25℃ (20-50℃) Time : 30sec (30-60sec)	1. No material impact 2. After another process is possible
TANOL-2005 (Sealing Chemical)	TANOL-2005 : 100㎖/ ℓ Temp : 60℃ (45-65℃) Time : 10sec (10-60sec)	1. Good Anti Tanish. 2. Electrical conductivity and soldering does not affect 3. Low Toxic
MS-ZIN 22 (Replace Zincate)	MS-ZIN 22 : 1,000㎖/ ℓ Temp : 20-25℃ Time : 20-120sec	1. Before Ni-P plating purpose 2. No corrosion of the material 3. Cyanide Free
CR-1 (Anti Tarnish, Sealing Chemical)	CR-1 : 10-15% Temp : 60℃ (45-70℃) Time : 30sec (30-120sec)	1. Good Anti Tanish. 2. Electrical conductivity and soldering does not affect. 3. Low Toxic.

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