

(주)수양켄텍

**sooyang  
chemtec**

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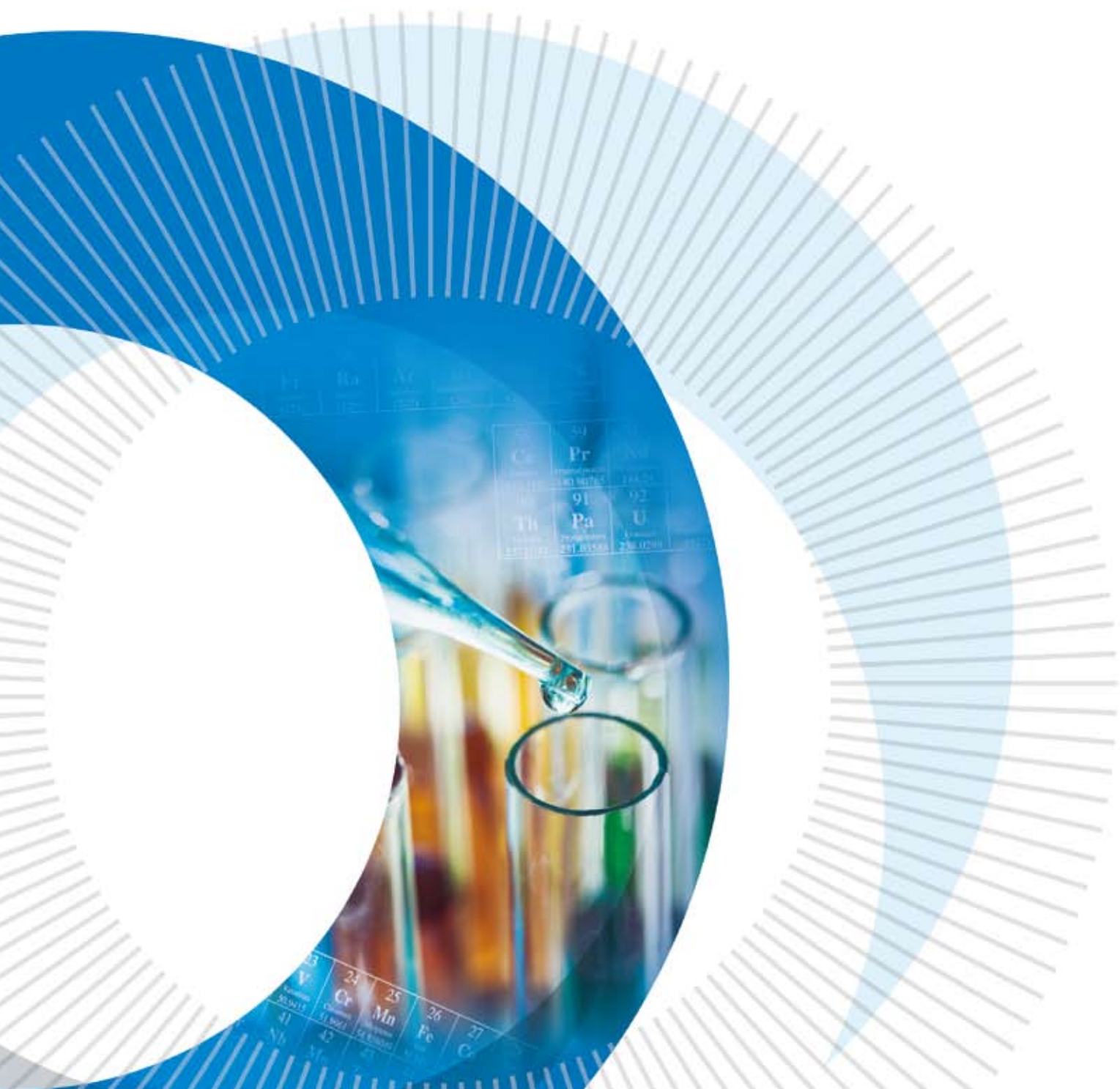
#1204, kolon Digital Tower billant, 30, Digital-ro 32-gil, Guro-gu, Seoul, Korea  
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# SOOYANGCHEMTEC

Share together with customers  
for today's problem with tomorrow's solution.





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## Greeting of the CEO

We do our best to provide the best products.



**Sooyangchemtec is growing continuously with challenging and future-oriented enterprise spirit "Leading new technology to be with customer" since its establishment 1999.**

We are making progress in fine chemical field to concentrate on development and practical application research with excellent technology, perfect quality control, continuous research and development.

We are trying our best to be the enterprise which has international competitiveness with customer, opening growth in the future. We promise that we will be the growing company with truthfulness and advanced technology, great service.

(주)수양켐텍은 1999년 설립하여 [고객과 함께하는 신기술을 선도하는 기업] 이라는 기업이념 하에 미래지향적이고 도전적인 기업정신으로 지속적인 성장을 하고 있습니다.

(주)수양켐텍은 우수한 기술력, 완벽한 품질관리, 지속적인 연구개발을 바탕으로 비즈니스 인프라 환경을 통해 경영효율성과 투명성을 제고하고 있으며, 전자재료를 포함한 전산업에 필요한 정밀화학 첨가제 개발 및 응용연구에 중점을 두어 정밀화학분야의 선도주자로 나아가고 있습니다.

앞서가는 기술력과 서비스로 고객의 약속을 소중히 여기는 신뢰성 있는 기업으로 성장할 것임을 약속 드립니다.

(주) 수양켐텍 대표이사 박범호

By CEO *Pack Bumho*

## Company Goal

SOOYANGCHEMTEC

VALUE FOR CUSTOMERS, VISION FOR US

Enterprise with customer

고객과 함께하는 기업

Competitive  
global company

경쟁력 있는 글로벌 기업

Company making an  
investment in business  
for future growth

미래성장사업의  
투자를 열어가는 기업

# Share together with customers for today's problem with tomorrow's solution

Sooyangchemtec is making a progress as a leader of fine chemical field with creative technology starting with basic chemical and ordinary surfactant and industrial additives.

(주)수양캠텍은 기초화학분야를 기축으로 일반 계면활성제 및 산업용 첨가제 사업을 시작하였고 창의적인 기술력을 바탕으로 정밀화학분야로 도약하고 있습니다.

We have an excellent researching system to develop what customer wants like surfactant for home care product and high value added functional material with ISO 9001 for stable manufacturing and supply.

We have been developing ionic conductive materials. electronic chemical, Additives of textile , polymer. Metal. Cosmetic. Homecare industries supplying raw material and coarse manufacturing by beginning. We promise that we will do our best to be a leader of fine chemical in the future.

Home care에 첨가되는 계면활성제와 고부가가치의 기능성 원료를 개발하고, 생산과 공급에 있어 품질경영시스템(ISO 9001)을 기본 바탕으로 고객이 원하는 제품을 개발할 수 있는 우수한 연구체제를 갖추고 있습니다. 각종 계면활성제관련 원료 공급 및 조제, 생활용품분야, 화장품분야, 금속산업, 고분자 산업, 섬유산업에 관련된 첨가물 산업을 지향하고 전자재료용 첨가제, 이온 도전제 등을 개발하여 국산화하고 있습니다. 앞으로 정밀화학분야에 선두주자로 나아가도록 최선의 노력을 다하겠습니다.





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## Company History

<b>1999</b>	Foundation of Sooyang chemical 수양화학 설립		
	Established manufacturing plant for detergent 가정용 제품 제조 공장 설립		
	Established R&D Center 기업부설연구소 설립	<b>2011</b>	Republic of Korea leading the future growth engine certification(MKE) 대한민국 신성장동력 미래선도 기업 인증 (지식경제부) Technology Innovation Award (The field of fine chemicals and additives) 2011 기술혁신대상 (정밀화학첨가제 분야)
<b>2003</b>	Registered to KITA 무역협회(KITA) 등록		Registration of patent (# 10-1016260) 특허 등록 (제10-1016260호)
	Registered corporation 법인등록	<b>2012</b>	Certified Promising company for the future 미래선도 유망기업 인증
	Received ISO 9001 certification (URS) ISO 9001:2000 인증 획득(URS)		Registration of Trademark(# 40-1071486호) 상표 등록(제 40-1071486호)
<b>2004</b>	Certified R&D Center 기업부설 연구소 인증	<b>2013</b>	Registration of Trademark(# 40-1071488호) 상표 등록(제 40-1071488호) Certified SeoulTech partner 서울과학기술대학교 파트너 기업 인증
	Change a firm name into Sooyangchemtec Co., Ltd. 상호 변경 : (주)수양켄텍		Completed Factory of Chungnam Yesan 충남 예산공장 준공
<b>2005</b>	Approved as a Technology-Venture Company (KIBO) 벤처기업 인증(기술보증기금)	<b>2014</b>	Registration of patent(# 10-1432144) 특허 등록(제10-1432144호) Registration of patent(# 10-1488781) 특허 등록(제10-1488781호)
	Certified transparent management (KIBO) 투명경영인증(기술신용보증기금)		Registration of patent(# 10-1462037) 특허 등록(제10-1462037호)
<b>2007</b>	REGISTRATION OF PATENT(# 10-0768528) 특허 등록(제10-0768528호)	<b>2015</b>	Registration of patent(# 10-1500430) 특허 등록(제10-1500430호)
<b>2008</b>	Approved as the INNO-BIZ company (SMBA) INNO-BIZ 인증 (서울지방중소기업청)L	<b>2016</b>	Registration of patent(# 10-1644395) 특허 등록(제10-1644395호) Registration of patent(# 10-1611384) 특허 등록(제10-1611384호)
<b>2009</b>	Registration of patent (# 10-0933441) 특허 등록 (제 10-0933441호)	<b>2017</b>	Permission to manufacture Toxic Materials at Yesan Factory 충남 예산공장 위험물 제조시설 허가
<b>2010</b>	Selected as a business for the exportation reinforcement of the capability 수출역량강화사업 선정		
	Selected as the company supported by KIPA 한국발명진흥회 지원업체 선정		

## Certification Status



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# Mission of Sooyangchemtec

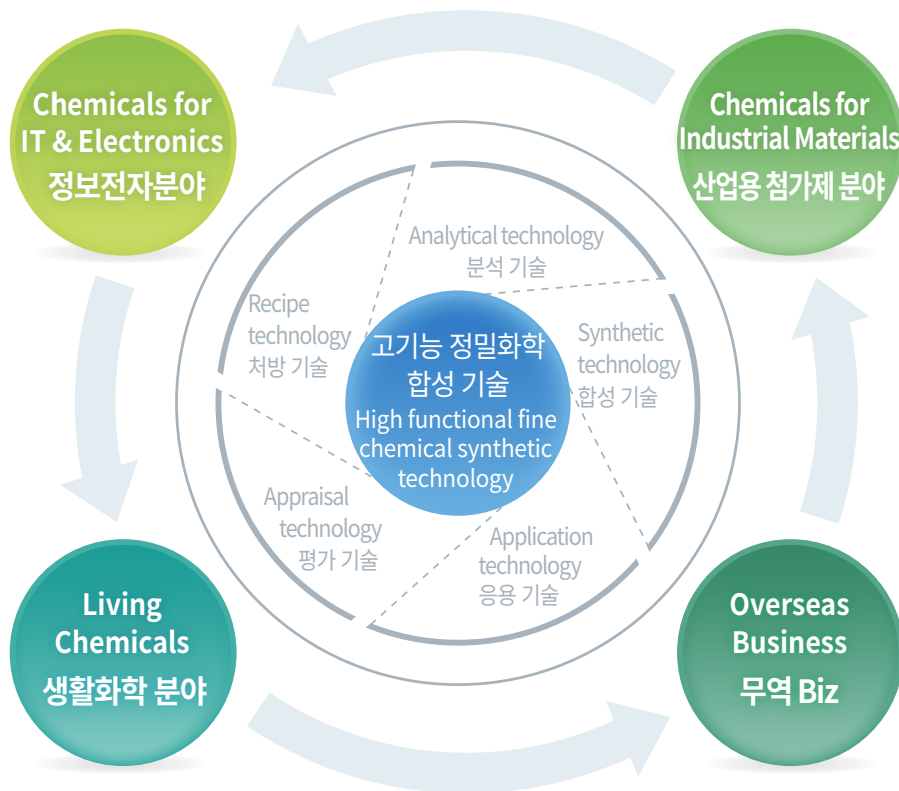
수양켄텍이 걸어온 길은  
보다 가치 있는 일을 위한 노력입니다.





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**Vision** Sooyangchemtec has been making every effort to remain as the only company expertly develops precision chemical additives in the country.  
수양캠텍은 국내 유일의 첨단 정밀화학 첨가제 전문 개발 기업으로서의 면모를 갖추어 나아가고자 노력하고 있습니다.



Customer	Exploit	R&D	Advance	Environment
Maximizing not only customer impressions but also customer values.	Actively advancing into new markets to invite worldwide superior enterprises to be the company's clients.	Making continuous investments to improve R&D environment and enhance research personnel quality.	Nurturing high-grade manpower with world-class technologies in order to make the company grow into one of world-renowned synthetic precision chemical manufacturers.	Becoming a leader in manufacturing the green solution to improve and develop environment-friendly chemicals.
고객감동은 물론 고객가치를 극대화한다.	신규시장 영역을 적극적으로 개척하여 세계적인 우량기업들을 우리의 고객으로 모신다.	지속적인 투자로 R&D 환경을 개선하고 연구원들의 자질을 향상한다.	세계적인 수준의 기술을 보유한 고급인력의 양성으로 세계 종합정밀약품사로 성장한다.	친환경 소재, 약품 개발로 Green Solution의 선두주자가 된다.



## R&D Center

# Challenge

## The World Best Sooyangchemtec

R&D center persevered growth of the Sooyangchemtec by developing of the high function IT& electronic chemicals, industrial chemicals and living material chemicals bases on accumulated fine chemical technologies. And through the development of the high technologies and the cultivation of world- class talents, we are preparing to step forward as global fine chemical enterprise.

(주)수양켄텍 R&D Center는 축적된 정밀화학기술을 바탕으로 고기능 정보전자용 케미칼, 산업용 케미칼, 생활소재용 케미칼 제품의 연구개발 및 품질향상을 추진하여 회사성장을 견인하고 있습니다. 또한, 세계최고의 정밀화학 전문기술 확보를 목표로 성장동력 확보를 위한 핵심기술 육성 및 시장, 고객 맞춤형 고기능 제품의 연구개발을 적극 추진하고 있습니다.

### Development history

<b>2001</b>	Cleansing agent for household 가정용, 산업용 세정제 Water soluble lubricant 수용성 윤활제	<b>2011</b>	Tobacco Filter Plasticizer TBPH 담배필터가소제 ENER-WHITE 미백제
<b>2003</b>	Low foaming nonionic surfactants 자기포성 비이온 계면활성제	<b>2012</b>	Waste recycling technology of textile and leather process 섬유,피혁 공정의 폐기물 재활용 기술 Antistatic agent for polarizer protective film 편광판 보호필름용 대전방지제
<b>2005</b>	Non-ionic surfactants by using glucose 포도당을 이용한 비이온 계면활성제 Polymerizable surfactants Polymerizable 계면활성제 Water soluble dispersing agent for dye&pigment 염/안료 수용성 분산제(수지형) Cleansing agent for LCD, PDP LCD, PDP용 세정제 Alkali solubilization 알칼리 가용화제	<b>2013</b>	Additive antistatic agent in compound 컴파운드 내첨용 대전방지제 Biodegradable fiber preparation form organic wates 유기성 폐기물로부터 생분해성이 우수한 섬유조제 Conductive plasticizer for polarizer protective film 편광판 보호필름용 도전성 가소제
<b>2006</b>	Gemini type surfactants (anionic & cationic) 제미니형(비/양이온) 계면활성제 Antistatic agent for UV paints 광학 UV도료용 대전방지제 Antistatic agent for IT&Electronics adhesive 정보전자 접착제용 대전방지제	<b>2014</b>	Reactive antistatic agent 반응형 대전방지제 Acrylic ion conductive coating solution Acry계 이온 도전제 코팅액
<b>2007</b>	Dispersing stabilizers for CMP Slurry CMP Slurry용 분산안정화제 Polishing additive for CMP Slurry CMP용 연마보조제	<b>2015</b>	Antistatic agent for PSA PSA용 대전방지제 Fluorinated water repellent 불소계 발수제 Water repellent agent 발수제 개발
<b>2008</b>	Conductive Polymer 전도성 고분자	<b>2016</b>	Anti-fingerprint Coating Additives 내지문 코팅 첨가제 UV-Curing Anti-Fingerprint Coating Additives UV경화형 내지문 코팅 첨가제
<b>2009</b>	LED encapsulant / Conductive Paste for TSP Metal Etchant for TSP LED 봉지제 / TSP 전극용 전도성 페이스트 TSP용 Metal Etchant	<b>2017</b>	Fluoro Silicone Reease Agent 불소 실리콘 이형제
<b>2010</b>	Ionic liquid 이온성 액체		



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【 Lists of Main Instruments / 주요 보유 기자재 】

Precision synthetic / 합성 분야

- Gas Chromatography(FID/TCD)
- FT-IR
- HPLC
- GPC
- TGA/DSC
- MP 측정기
- Viscometer
- Karl Fischer etc.



Anti-static / 대전방지 분야

- Colorimeter
- Probe resistance meter etc.



Reliability Assessment / 신뢰성 평가 분야

- 항온 항습기
- 마찰계수 시험기
- 접촉각 측정기
- 내마모 시험기
- UTM etc.



Other / 기타

- Atmospheric Pressure Plasma
- UV 경화기
- High temperature oven
- pH meter
- Optical microscope
- UV-vis spectrophotometer
- Surface tensioner
- Laminator
- Atmospheric Pressure Plasma
- Integrating sphere etc.



【 Patent status / 특허 현황 】



# PRODUCTS CONTENTS

Provide the best product and the highest service to customer

## IT & Electronic Materials 정보/전자 소재

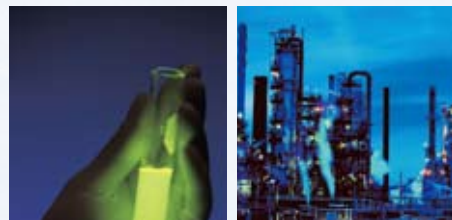
- 11 Anti-static agent 대전방지제
- 13 Fluoro & Silicone Products 불소&실리콘 제품
- 17 Surface Treatment Chemicals
- 19 Functional coating solution

## Industrial Materials 산업용 소재

- 20 Plastic Additives 플라스틱/수지 첨가제
- 24 Fiber Additives 섬유용 첨가제
- 24 Metalwork Additives 금속 가공용 첨가제
- 24 Other Industrial Additives 기타 산업용 첨가제

## Living Chemicals 생활 화학 소재

- 25 Detergent (OEM, ODM System) 세제 (OEM, ODM 시스템)
- 26 Surfactants 계면활성제
  - General surfactants 일반계면활성제
  - Novel surfactants 특수계면활성제
  - Surfactants for agricultural pesticide 농약용 계면활성제
- 30 Cosmetic Additives & Other raw materials 화장품 첨가제, 기타 원재
  - Cosmetic Silicone 화장품용 실리콘
  - 무기물 및 기타 첨가제
  - Thickener/Preservatives/Extract & Oil 증점제/방부제/추출물/오일
  - Fatty Alcohol, Conditioning Agent, Emulsifying agent & Peeling Agent 지방알콜/컨디셔닝 에이전트/유화제/박리제
  - Humectants & Wax 보습제/왁스



# 01

## IT & ELECTRONIC MATERIALS Antistatic Agents/ Conductive Polymers

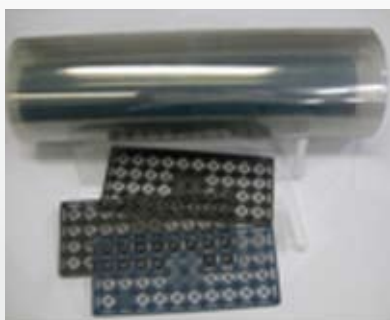
### Conductive Polymers

#### Characteristic

- Excellent stability against temperature and light  
온도와 빛에 대한 안정성 우수
- Excellent electro-optical property / high transparency  
전기광학 특성이 우수/ 고 투명도 구현
- Low surface resistance / drying temperature  
낮은 표면 저항값/ 건조 온도 구현
- Environmentally friendly in water dispersion / Excellent storage stability  
수분산 형태로 친환경적임/ 보관 안정성 우수

#### Usage

- Electronic component tray  
전자부품 tray
- Cover tape  
커버 테이프
- Optical film  
광학 필름



### Conductive Polymers(SY-CP series)

Grade	Usage	Characteristic	Electrical Conductivity	Surface Resistance (≤ Ω/□)	Solid Content (%)	pH	Mean Particle Size Approx. (d50)
E421D	In-line용 특수Tray용	High conductivity	150	10 <sup>3</sup> ~ 4	1.0 ~ 1.5	1.5 ~ 2.5	≤50nm
E421K2 (개발품)	In-line용	Improved compatibility Solvent resistance	120	10 <sup>3</sup> ~ 4	1.0 ~ 1.5	1.5 ~ 2.5	≤50nm
E421K	특수Tray용	Process improvement product Low price	150	10 <sup>3</sup> ~ 4	0.6 ~ 0.8	1.5 ~ 2.5	≤50nm
E452T	UV, 열경화 Film / Tray용	Process improvement product Low price	40	10 <sup>5</sup> ~ 6	1.0 ~ 1.5	1.5 ~ 2.5	≤100nm
E421A	UV, 열경화 Film / Tray용	General type	40	10 <sup>5</sup> ~ 6	1.0 ~ 1.5	1.5 ~ 2.5	≤100nm
E421A2 (개발품)	UV, 열경화 Film 용	Improved compatibility	40	10 <sup>5</sup> ~ 6	1.0 ~ 1.5	1.5 ~ 2.5	≤100nm
E425A	TSP glass용	SI application High hardness	10	10 <sup>7</sup> ~ 8	1.0 ~ 1.5	1.5 ~ 2.5	≤30nm

※ 전기전도도, Surface Resistance : DMSO 5% 첨가후 결과

# 01

## IT & ELECTRONIC MATERIALS Antistatic Agents/ Conductive Polymers

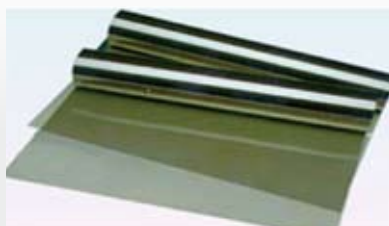
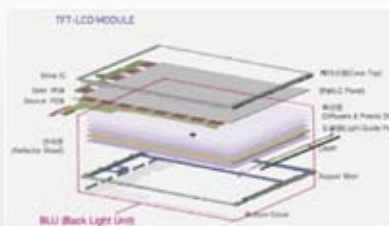
### Ionic Conductive Agents/ Ionic Liquids

#### Characteristic

- Excellent peeling voltage, adhesion, surface hardness  
박리 대전압, 부착성, 표면경도 우수
- ROHS / Halogen elimination  
ROHS/ Halogen 성분 배제
- Good compatibility with Resin and excellent antistatic property  
Resin과의 상용성, 대전방지성 우수
- Colorless transparent products available  
무색투명한 제품 가능
- Thermochemical stability, various molecular design possible  
열화학적 안정성, 다양한 분자 디자인 가능

#### Usage

- ELCD Protective Film  
LCD 평광판 보호필름
- LCD BLU protective film  
LCD BLU 보호필름
- ESD Bag



### Ionic Conductive Agents(SY-ICA series)

Grade	Appearance	Solvent Compatibility	Application	Surface Resistance (Ω/□)	Remarks
P211A / P212B	Transparent Liquid	Organic Solvent / Water	UV coating Binder Adhesive PSA	10 <sup>9</sup> ~ 11	Dosage : 0.5~5phr
P222B / P225B	Transparent Liquid	Organic Solvent			

### Ionic Liquids(SY-IL series)

Grade	Appearance	Solvent Compatibility	Application	Surface Resistance (Ω/□)	Remarks
QM352 / IM329	Light Yellow Liquid	Organic Solvent	UV coating	10 <sup>9</sup> ~ 11	Dosage : 0.5~5phr
QM341			Acryl PSA / UV coating		
PY315			Acryl PSA		
N222B			Si PSA		
QA390			반응형		

### Modified Surfactants(SY-ICA series)

Grade	Appearance	Solvent Compatibility	Application	Surface Resistance (Ω/□)	Remarks
S282C / M273C	Light Yellow Liquid	Alcohol / Water	Surface coating	10 <sup>7</sup> ~ 10	Dilution : 100~150 Times (IPA)
C131B			Textile coating	10 <sup>9</sup> ~ 11	

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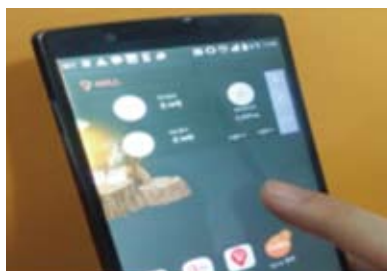
## IT & ELECTRONIC MATERIALS Fluoro & Silicone Products

### Anti-Fingerprint Coating Additives (내지문 코팅 첨가제)

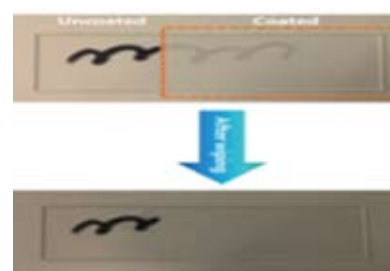
Coating additive that gives water repellent / oil / slip on the surface  
표면에 발수/발유/슬립 기능을 부여 하는 코팅 첨가제



High Water Repellency



Excellent Touch Sensitivity



Easy to Clean

#### Usage

- Anti-Fingerprint coating of window glass for touch screen  
터치스크린용 윈도우 글라스의 내지문(AF)코팅
- Anti-Fingerprint coating of PET, METAL, etc.  
PET, Metal등의 내지문(AF)코팅
- Anti-fouling of optical lenses  
광학렌즈등의 오염방지

### SY-AF Series (20 wt.% in Fluoro Solvent)

Item			SY-AF 1001	SY-AF 2001	SY-AF 3001	SF-AF 3002
Initial Water Contact Angle(°)			114.1~115.0°	114.1~115.1°	115.8~116.1°	115.7~116.4°
Abration Test	Rubber	3000cycles	107.2~108.4°	110.7~111.6°	110.3~110.4°	111.1~111.2°
		5000cycles	104.1~105.4°	107.3~108.6°	106.9~107.0°	109.7~109.8°
	Steel Wool	3000cycles	110.6~111.4°	110.5~112.9°	109.7~110.1°	110.3~111.1°
		5000cycles	109.1~110.8°	110.4~111.4°	107.2~107.3°	108.9~109.3°
Test Method			AF Concentration : 0.15 ~ 0.20 wt.% Contact Angle Meter : DSA-100 Abrasion Test 1 : 1 Kg, Rubber, 40cycles/min Abrasion Test 2 : 1 Kg, Steel wool(#0000,1x1cm), 40cycle/min			

※ Possible to change depending on concentration, substrate, coating method and measuring instrument  
농도, 기재, 코팅방법, 측정기기에 따라 달라질 수 있음.

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## IT & ELECTRONIC MATERIALS Fluoro & Silicone Products

### UV-Curing Anti-Fingerprint Coating Additives (UV 경화형 내지문 코팅 첨가제)

Additives that gives Water-repellent / oil-repellent / slip / Easy to Clean function to the surface of hard coating  
하드코팅 표면에 발수/발유/슬립/Easy to Clean 기능 부여 첨가제



High Water Repellency

Easy to Clean

#### Usage

- Provides anti-fingerprint function to hard coating of optical film surface  
광학용 필름 표면의 하드코팅에 내지문 기능 부여
- Provides anti-fouling function to hard coating of film and sheet(PET, PMMA, PC, etc.)  
필름 및 Sheet(PET, PMMA, PC등)의 하드코팅에 오염 방지 기능 부여

#### SY-UVAF Series

Item		Acryl Resin (6 functional group)	SY-UVAF 1004 (10 wt.% in MIBK)	SY-UVAF 2003 (Solid Content 97%)
Initial Water Contact Angle(°)		67.5 ~ 69.8	107.1 ~ 112.8	103.1 ~ 104.4
Abration TEST	Steel Wool			
	1,000 Cycles	65.1 ~ 66.2	92.8 ~ 94.2	87.3 ~ 89.5
	3,000 cycles	62.1 ~ 64.0	84.3 ~ 86.8	80.8 ~ 82.1
Coefficient of friction		0.303	0.092	0.15
Test Method (Solid 20% in PGMEA)		Concentration : 99 wt.% UV cure : 700~800mJ/cm <sup>2</sup> , air Contact Angle Meter : Surfacetech Co. - GSM Abrasion Test : 1 Kg, Steel wool(#0000,1x1cm), 40cycle/min	AF Concentration : 0.1 wt.% (Resin 99.9g + AF 1004 0.1g) UV cure : 700~800mJ/cm <sup>2</sup> , air Contact Angle Meter : Surfacetech Co. - GSM Abrasion Test : 1 Kg, Steel wool(#0000,1x1cm), 40cycle/min	AF Concentration : 97 wt.% UV cure : 700~800mJ/cm <sup>2</sup> , air Contact Angle Meter : Surfacetech Co. - GSM Abrasion Test : 1 Kg, Steel wool(#0000,1x1cm), 40cycle/min

※ Possible to change depending on concentration, substrate, coating method and measuring instrument  
농도,기재,코팅방법,측정기기에 따라 달라질 수 있음.

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## Fluoro Silicone Release Agents (불소 실리콘 이형제)

Stable release force on the surface of adhesive of highly heat-resistant silicone resin  
고 내열성 실리콘계 수지로 점착제의 표면에 안정적 이형성 제공



- Fluorine-based silicone type of release agent  
불소계 실리콘 타입의 이형제
- Maintain consistent and stable releasing force  
지속적이고 안정적인 이형력 유지
- Pt catalyst type addition reaction system  
(two-component type)  
Pt 촉매형 부가반응 시스템(2액형)



- Fluoro Silicone Release Film-

Product name	Usage	Coating Conditions
SY-FSRA-B60	<ul style="list-style-type: none"> <li>▪ Highly heat-resisting tape 고 내열 테이프</li> <li>▪ Release coating for Silicone adhesive 실리콘 점착용 이형코팅</li> <li>▪ Release performance on the paper 종이(박리지)의 이형성 부여</li> <li>▪ Coated on the plastic substrates 플라스틱 기질에의 이형성 가공</li> </ul>	<ul style="list-style-type: none"> <li>▪ Solvent : Heptane, MIBK 희석액 : Heptane, MIBK</li> <li>▪ Solids : 5% 고형분 : 5%</li> <li>▪ Application amount(g/m<sup>2</sup> dry) : 약0.3 도포량 : 약0.3</li> <li>▪ Curing condition : 150°C x 1min 경화조건 : 150°C x 1min</li> </ul>

Product Name	Release Force	Residual Sticking Rate	Residual Sticking Rate
SY-FSRA-B60	5g/in	99% (30°C, 7days)	99% (60°C, 7days)

※ 기재: PET50μm(KOLON CD901), ST-854GH Tape

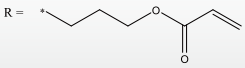
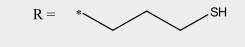


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## IT & ELECTRONIC MATERIALS Fluoro & Silicone Products

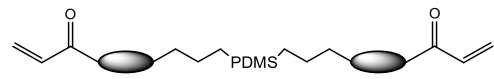
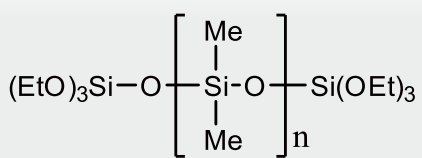
### POSS (Polyhedral Oligomeric Silsesquioxane)

- Improved Scratch Resistance  
내스크래치 향상
  - Improved Adhesion  
접착력 향상
- High Light Transmittance  
높은 광투과율
  - Improved Durability  
내구성 향상
- Improved Hardness  
경도 향상

Product Name / Structure	Functional group	Molecular Weight(Mw)	Viscosity (cP at 25°C)	Appearance
SY - ASO 101 (Cage mixture) 	8	1,322~ 1,983	4,000~ 7,000	Transparent liquid
SY- SHSO (Random mixture) 	6	509~ 1,018	66,000~ 68,000	Transparent liquid

### Silicone Derivative Compounds (실리콘 유도체 화합물)

- Improved Flexibility  
유연성 향상
  - Improved Wettability  
젖음성 향상
- Improved Slipperiness  
슬립성 향상
  - Improved Smoothness  
평활성 향상
- Improved Water Repellency  
발수성 향상

Product Name / Structure	Functional Group	Molecular Weight(Mw)	Viscosity (cP at 25°C)	Appearance
SY - AUP series 	2	1,600~ 1,800	60~100	Transparent liquid
		3,000~ 3,200	110~130	Transparent liquid
		9,000~ 11,000	10,000~ 11,000	Transparent and Yellowish liquid
SY - PDMS 1001 	6	13,000~ 15,000	90~120	Transparent liquid

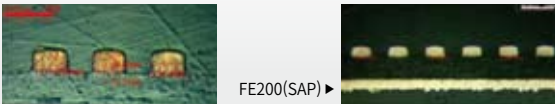
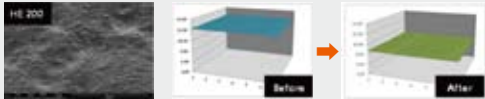
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## IT & ELECTRONIC MATERIALS PCB Chemicals

### Soft Etching/Soft Etching Additives (에칭액 / 에칭 첨가제)

Category		Product Name	Remarks
Copper Etchant	Soft Etching (Micro)	SY-SE 100 (H <sub>2</sub> SO <sub>4</sub> / H <sub>2</sub> O <sub>2</sub> )	- None-Matte Type - Dry-Film, PSR Pre-treatment - Available for using pure, industrial and tap water
		SY-SE 200 (H <sub>2</sub> SO <sub>4</sub> / H <sub>2</sub> O <sub>2</sub> )	- Semi-Matte Type - Application of dry film laminating process - Uniform etching on copper surface
		SY-SE 300 (H <sub>2</sub> SO <sub>4</sub> / H <sub>2</sub> O <sub>2</sub> )	- Matte Type - Creating uniform surface roughness on the copper surface - Dry film, PSR Pre-treatment
		SY-SE 320 (H <sub>2</sub> SO <sub>4</sub> / H <sub>2</sub> O <sub>2</sub> )	- Matte Type - Cl- Resistent improvement - Outstanding profile and adhesion - Low Etching Type soft etching Solution

### Flash Etching / Half Etching

Category	Product Name	Remarks
Flash Etching	SY-FE 100 / 200 (H <sub>2</sub> SO <sub>4</sub> / H <sub>2</sub> O <sub>2</sub> )	- Selective Etching of seed layer - minimizing side etching  
Half Etching	SY-HE 200 (H <sub>2</sub> SO <sub>4</sub> / H <sub>2</sub> O <sub>2</sub> )	- High Etching rate (4.0μm, 8.0μm, 10.0μm) - Effective in forming a thin copper foil with uniform thickness  

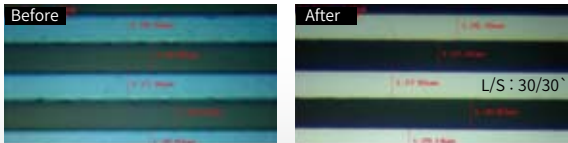
### DF Stripper

Category	Product Name	Remarks
Stripper	SY-DFS 100 / 200	- DFS 100 (NaOH Type + Additive) - DFS 200 (KOH Type + Additive) - High stripping speed & little discoloration - Excellent durability of stripper

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## IT & ELECTRONIC MATERIALS TSP Chemicals

### Developers / Strippers

Category	Product Name	Remarks
Developer	SY-DEV 200	- Good resolution, High solubility in water - ITO/Metal attack free
Stripper	SY-DFS 300	- Amine type + Additive 

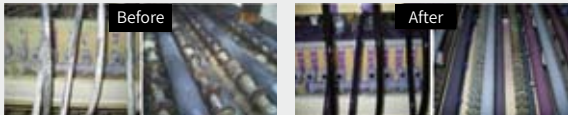
### ITO Etchant / Metal Etchant

Etching	ITO	SY-ITE 300	- Indium Tin Oxide(ITO) Etchant - None Ferric chloride type.
	Metal	SY-TE ME 100	- Metal/ITO One-step etchant - Cu, Ni/Cu alloy, Ni/Cr alloy etc
		SY-TE SM 100	- Selective metal etchant / ITO attack free - Ag, Ag/Mo, APC metal layer etc 
		SY-TE CN 100	- Selective metal etchant / ITO attack free - Cu, Cu/Ni alloy metal layer etc

### Metal Mesh Etchant

Metal Mesh	SY-NCE 300	- Copper etchant for metal mesh (Cu, Cu alloy etc) - Low etching rate (50 ~ 200 Å) / Good uniformity
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### Equipment Cleaners

Equipment Cleaner	SY-DEC 100	- Easily applicable to the process - Cleaner for PSR or Dry film of development & stripping 
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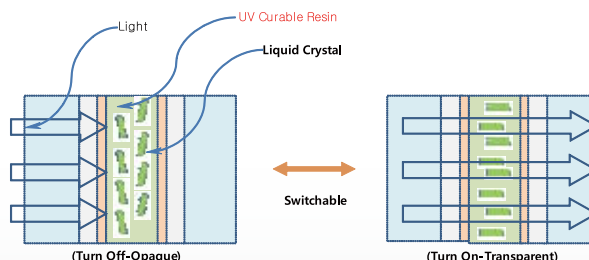
## IT & ELECTRONIC MATERIALS Functional Coating Solutions

### UV Curing Resin for PDLC (PDLC용 UV경화 수지)

- It is a resin used for smart window and film manufacturing.

Strong adhesion to ITO film  
Excellent compatibility with liquid crystals

- 스마트윈도우 및 필름 제조에 사용하는 수지  
특징 : 강한 부착력(ITO film) 및 액정과의 탁월한 상용성



Item	Appearance	NV (%)	Viscosity (cps)	Refractive index	Remarks
SY-AD-141	pale yellowish liquid	100	~ 50	1.45	UV curing type

### Hard Coating Resin for Polycarbonate (Polycarbonate용 하드 코팅제)

- It is UV curable coating resin for PC (polycarbonate) substrate.

Excellent chemical resistance and high transmittance

- 선박(강화유리 대체용 polycarbonate 기재)에 적용 가능한 UV 경화형 하드코팅액  
특징 : 내화학성 및 고투과율

Item	Appearance	NV (%)	Viscosity (cps)	Pencil hardness	Remarks
SY-PC-181	transparent liquid	100	300 ~ 350	80μm, 8 ~ 9H(PC)	UV curing type

※ UV curing is possible without oxygen blocks.  
산소 차단 없이도 UV경화 가능.

### PSA for Semiconductor Dicing Process (반도체 제조 공정용 접착제)

- It is an adhesive for manufacturing dicing tape applied to sawing process during semiconductor manufacturing process.

- 반도체 제조 공정에 사용하는 dicing tape용 PSA

Item	Appearance	NV (%)	Viscosity (cps)	Adhesion (Before/after UV,gf/25mm)
SY-DC-176	Transparent to slightly hazy	50	6,300	20μm, 800 / 2 (on glass)





# 02 INDUSTRIAL MATERIALS

## Plastic Additives

### Anti-Oxidants (산화방지제)

It is the material that prevent polymer such like plastic from decomposing by oxygen.  
 플라스틱 등 고분자가 산소 및 가공 중에 열에 의해서 산소와 반응하여 분해되는 것을 막아주는 물질.

ITEM	Appearance	COATING	PVC	PE	PP	POM	PA	PC	PBT	PET	PMMA	ABS	ABS/PC	SAN	PS	RUBBER	FOAM	TPU/Elastomer	
<b>Antioxidant</b>																			
SOONOX-245	P					■	■		■		■	■		■			■	■	
SOONOX-235	L	■																	
SOONOX-565	P																		
SOONOX-1010	P					■	■		■	■							■	■	
SOONOX-1076	P		■					■			■	■	■	■	■		■	■	
SOONOX-1035	P																		
SOONOX-1135	L										■						■	■	
SOONOX-12	P															■			
SOONOX-126	P						■		■	■		■	■	■				■	
SOONOX-168	P						■	■	■	■	■	■	■	■	■				
SOONOX-923	L	■																	
SOONOX-1726	L	■																	
SOONOX-3114	P		■	■	■		■					■						■	
SOONOX-1098	P			■	■	■			■	■									
SOONOX-PEPQ	P						■					■							
SOONOX-121 series	P			■	■	■	■					■	■						
SOONOX-320 series	P		■				■	■			■	■	■	■	■		■	■	

### Mineral Additives (무기첨가제)

It is the material that prevent polymer such like plastic from decomposing by oxygen.  
 플라스틱 등 고분자가 산소 및 가공 중에 열에 의해서 산소와 반응하여 분해되는 것을 막아주는 물질.

CaCO <sub>3</sub>	Talc	Clay	Mica
Bentonite	Diatomite	TiO <sub>2</sub>	Carbon black

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## Photoinitiators (광개시제)

It is a material that absorbs energy from an ultraviolet lamp and starts a reaction to a polymerization reaction.

자외선램프에서 에너지를 흡수하여 polymerization 반응을 시작하게하는 물질

ITEM	Chemical name	CAS NO.	Molecular Weight	Melting Range (°C)	Absorption (nm)	Through Cure	Surface Cure	Clear Systems	White Systems	Pigmented Systems	LED Cure	Water Based Systems
SY-PI 1173	2-Hydroxy-2-methyl-1-phenyl-1-propanone	7473-98-5	164.2	4	244, 280	■■■	■■	■	■	■■■	■■■	
SY-PI 184	1-Hydroxycyclohexyl phenyl ketone	947-19-3	204.3	46~50	244, 280	■■	■■■	■■■	■■■	■■	■	■■
SY-PI 659	2-Hydroxy-1-[4-(2-hydroxyethoxy)phenyl]-2-methyl-1-propanone	106797-53-9	224.3	86~90	274	■■	■■■	■■■	■■■	■■	■	■■■
SY-PI 907	2-Methyl-1-[4-(methylthio)phenyl]-2-(4-morpholinyl)-1-propanone	71868-10-5	279.4	73~76	231, 307	■■■	■■	■■	■■	■■■	■■	
SY-PI TPO	Diphenyl(2,4,6-trimethylbenzoyl)-phosphine oxide	75980-60-8	348.4	91~94	295, 380	■■■		■■■	■■■	■■	■■■	■
SY-PI TPO-L	Ethyl(2,4,6-trimethylbenzoyl)-phenyl phosphinate	84434-11-7	316.4	—	299, 366	■■■		■■■	■■■	■■	■■■	■■
SY-PI MBF	Methyl Benzoyl Fomate	15206-55-0	164.2	—	255, 340		■■■	■■■	■■	■		■■■
SY-PI BDK	2,2-Dimethoxy-1,2-diphenyl-ethanone	24650-42-8	256.3	64~67	250, 340	■■■	■■■			■■■	■	
SY-PI DETX	2,4-Diethylthioxanthone	82799-44-8	268.4	70~75	261, 385	■■■	■■			■■■	■■■	



# 02 INDUSTRIAL MATERIALS

## Fiber / Metalworks / Others

### Fiber (섬유용)

#### Flame-retardant agents(난연제)

The Flame-retardant of Phosphorus and liquid type for PE, PP fiber : TFR – series (100, 110, 120)  
PE, PP 섬유용 고농도 액상 인계난연제 : TFR - series (100, 110, 120) 등

#### Antistatic agents(대전방지제)

Permanent antistatic agent for piece goods made of synthetics, synthetic blends : Statexan WP  
합성섬유 및 혼방섬유용 영구(내세탁성) 대전방지제 : Statexan WP 등

#### Dyeing/Finishing agent (염색/가공용 기능성 조제)

▪ Oil and water-repellents(발수발유제)	▪ Anti-soiling agents(방오가공제)
▪ Hydrophilic agents(흡수속건가공제)	▪ Anti-yellowing agents(황변방지제)

### Metalworks (금속 가공용)

#### Metal surface detergents (금속표면 탈지제)

Aritan-P

Low forming metal surface that is detergent(pH=neutral) for preprocessing cleaning  
저기포형 금속표면탈지제(pH 중성)로 표면처리 전처리 세정용으로 사용

#### Metal processing oil additives (금속 가공유 첨가제)

BUA-P-20

In case of processing metal with several oils that are not mixed, BUA-P-20 is able to help mixing them.  
금속가공 시(절,연삭) 첨가되는 첨가제로 서로 섞이지 않는 오일을 섞을 때 사용되는 첨가제임.

### Others (기타 산업용)

#### Optical brightening agents (형광증백제)

Optical brightening agent(OBA) makes the original yellowish colors more white in textile and paper etc.  
Our company has carried CBS-X, DMA-X, C-1100.

형광증백제는 세제, 비누, 화장품 산업은 물론, 섬유산업, 제지산업까지 광범위하게 사용 됩니다.  
당사 취급 제품은 CBS-X, DMA-X, C-1100 등이 있습니다.

# 03 LIVING CHEMICALS Household Products

## Processing Technology & Development Items (보유 기술현황 및 개발품목)



Heavy duty detergents

- Ultra concentrated detergents, Non concentrated Detergents ( Powder & Liquid)
- Cleans not only the saturated dirt but also unpleasant small and harmful germs



Kitchen detergents

- Soap base : Gentleness and goodness from Nature for your skin
- Surfactant base : Clean dishes, Vegetable, Fruits effectively and easily with a small amount of it.



Fabric Softener

- Regular , Concentrated and Transparent Fabric softener
- Plant-based products made with biodegradable components
- Good fragrance & Excellent Concepts

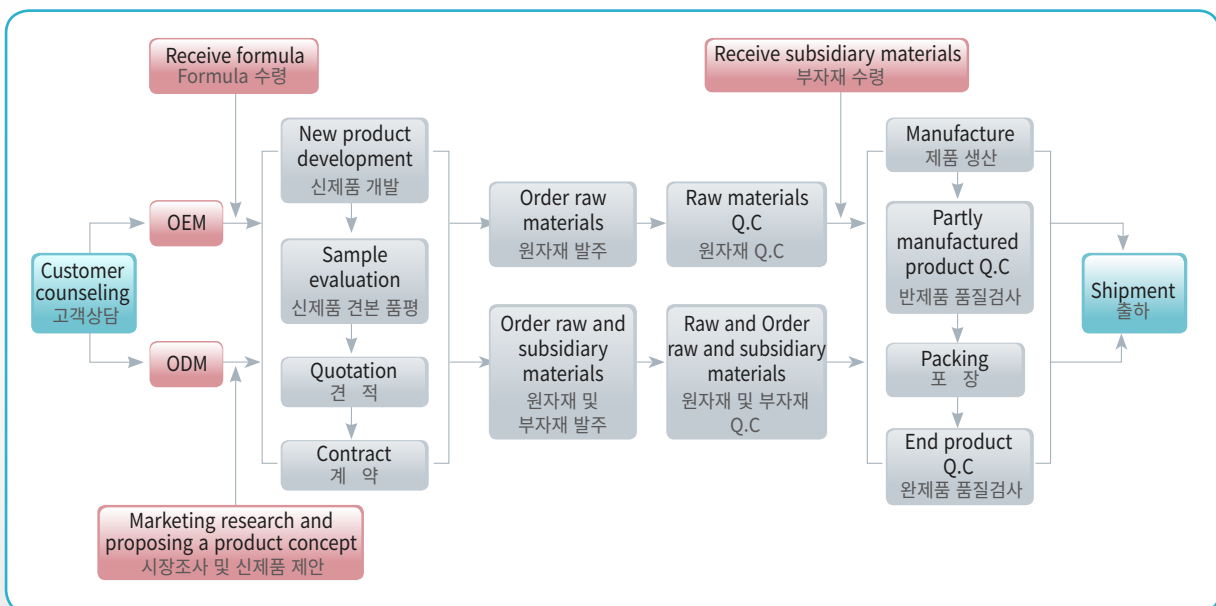


Other Items

- Lite Duty Detergent
- Multi-Purpose Cleaner
- Oxygen Bleach
- Deodorizer with Wrinkle Free & Easy Ironing
- Dishwasher Detergent & Rinse

## ODM & OEM System

- We manufacture and sell the product based on our self accumulated technology.
- We can supply household product by OEM and ODM.



# 03 LIVING CHEMICALS

## Household Products

Basic 및 고기능성 계면활성제로 주문자의 요청에 따른 분석, 개발, 생산 서비스 진행, 제품 적용 시 각종 Application에 최적화 할 수 있는 서비스 및 계면 활성제 분야 Total solution 제공

### General Surfactants (일반 계면활성제)

General surfactants including anionic, cationic, nonionic and amphoteric surfactants. They are applied to various purposes in household, cosmetic and industrial uses. Selectively used to serve various purposes.

가정용/산업용에 가장 많이 사용되는 일반적인 계면활성제로서 각각의 특성에 따라 선택적으로 사용된다.

#### Anionic surfactants (음이온계 계면활성제)

- LAS (Linear alkylbenzene sulfonic acid)
- AOS (Sodium  $\alpha$ -Olefin sulfonate)
- SLES (Sodium lauryl ether(3) sulfate)
- ALES (Ammonium lauryl ether(3) sulfate)
- DOS (Sodium di-isooctyl sulfosuccinate)
- SLS (Sodium lauryl sulfate)
- ALS (Ammonium lauryl sulfate)
- SXS (Sodium xylene sulfonate)
- SOS (Sodium octyl sulfate)

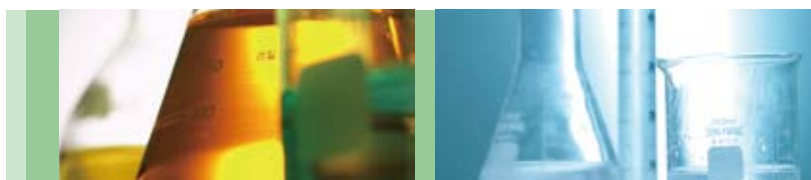
#### Cationic surfactants (양이온계 계면활성제)

- DADMAC (Dialkyl dimethyl ammonium chloride)
- ATAC (Alkyl trimethyl ammonium chloride)
- AB (Alkyl benzalkonium chloride)
- Esterquat (Bis(alkyloxyethyl)hydroxyethyl methyl ammonium methosulfate)

#### Nonionic surfactants (비이온계 계면활성제)

Type	Common Name	Chemical Name
Nonyl phenol series	NP	Nonyl Phenol ethylene oxide n mole
Octyl phenol series	OP	Octyl Phenol ethylene oxide n mole
Lauryl alcohol series	LA	Lauryl alcohol ethylene oxide n mole
Oleyl alcohol series	OA	Nonyl Phenol ethylene oxide n mole
Synthetic fatty alcohol series	TDA, OTA, LA-nD	Alkyl alcohol ethylene oxide n mole
fatty acid series	FA	Polyoxyethylene fatty acid ester
sorbitol series	SP	Sorbitan Fatty acid ester
	TW	Polyoxyethylene sorbitan ester
alkyl amine series	LM, TM, SM	Polyoxyethylene alkyl amine derivatives
PEG series	PEG	Polyoxyethylene glycol
PPG series	PPG	Polyoxypropylene glycol
EO/PO copolymer	PE	Propylene oxide/ethylene oxide copolymer
NP Free Series	APE Free	-

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## Amphoteric Surfactants (양쪽성 계면활성제)

- CAPB (Cocoamidopropyl betain)
- CM-conc (Cocoampho glycinate)
- C2M-conc (Cocoampho carboxyglycinate)
- C2M-LV (Cocoamphocarboxyglycinate (Low viscosity type) )
- 2MCA (Cocoampho carboxyglycinate & Sodium lauryl sulfate)
- CM (Sodium cocoamphoacetate)
- L2M (Disodium auroamphodiacetate)
- LM (Sodium lauroamphoacetate)
- C2M (Disodium cocoamphodiacetate)

## Novel Surfactants (특수 계면활성제)

### Alkyl Polyglucoside(APG)-series (당류계 계면활성제)

Eco-friendly nonionic surfactants based on glucose. They are very stable in high alkali. In addition, they have good biological properties and low toxicity.

포도당을 친수기로 하는 친환경 계면활성제로서 고알칼리 수용액에서의 안정성이 좋으며 생분해도가 좋은 차세대 계면활성제이다.

Product Name	Hydrophobic Group	Active Content(%)	Ionic Type
SY-Arlcon-series	C <sub>4</sub> , C <sub>8-10</sub> , C <sub>10</sub> , C <sub>12-14</sub> , C <sub>8-14</sub>	48 ~ 52	Nonion

### Amino acid-series (아미노산계 계면활성제)

Using with the major component of amino acid and collagen for good cleansing capacity to prevent skin troubles.

콜라겐의 주요소인 아미노산을 이용한 계면활성제로서 피부 보습 및 항균 기능이 우수하고 세정능력이 탁월하여 피부트러블 예방 및 개선에 효과적인 계면활성제이다.

Product Name	Hydrophobic Group	Active Content(%)	Ionic Type
SY-Aminomool-series	Lauryl, Cocoyl	25~35	Nonion

# 03 LIVING CHEMICALS

## Household Products

### Novel Surfactants (특수 계면활성제)

#### Gemini-series (제미니형계 계면활성제)

New-generation surfactant whose surface tension and critical micelle concentration are 10~100 times lower than general surfactants.

기존 계면활성제보다 표면장력치가 낮고 임계미셀농도가 10 ~ 100배 낮은 차세대 계면활성제로서 일반 계면활성제의 대체 제품으로 사용된다.

Ionic type	Product Name	Hydrophobic Group	Hydrophilic Group
Anion	Geman-series	C <sub>4</sub> , C <sub>8-10</sub> , C <sub>12</sub> , C <sub>12-14</sub>	EO/Phosphate
Cation	Gemca-series	C <sub>4-18</sub>	EO/Ammonium salt

#### Citric acid-series (구연산계 계면활성제)

Eco-friendly surfactants based on non-SO<sub>3</sub> or PO<sub>3</sub> that prepared using with citric acid. Low skin irritation, stable foam and good biological degradability.

구연산 친수기로 하는 비SO<sub>3</sub>, PO<sub>3</sub>형 친환경 계면활성제로서 피부 자극성이 미비하며 기포 안정성이 좋으며 생분해도가 좋은 차세대 계면활성제이다.

Product Name	Alkyl Group	Active Content(%)	Ionic Type
SY-LCT-series	LA-series	28 ~ 33	Anion

#### Polymeric Dispersant-series (고분자형 계면활성제)

Pigment/dye dispersing agents with water-soluble high molecules. Stable in alkali. Besides, they have high stabilizing effect of oil in water.

수용성 고분자를 이용한 염/안료 분산제로서 알칼리에서 안정적이며 오일에 대한 가용화 능력도 탁월하다.

Product Name	Chemical Structure	MW(g/mole)	Ionic Type
SY-Acro-series	Acryl copolymer	7,000 or 13,000	Nonion or Anion

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## Low Foaming Surfactant-Series (고파포성 계면활성제)

As nonionic surfactants that suppress foam and decrease foam, they have relatively low cloud point and outstanding penetrating power.

기존 계면활성제의 기포 생성을 억제하고 파포 능력을 향상시킨 비이온 계면활성제로서 비교적 낮은 cloud point를 나타내며 침투성이 우수하다.

Product Name	Substitute Grade	Active Content(%)
SY-ECN-series	NP-series	90.0 Min.
SY-ECL-series	LA-series	90.0 Min.
SY-ECO-series	OTA-series	90.0 Min.
SY-ECN-series	NP-series	90.0 Min.

## Surfactants for Agricultural Pesticides (농약용 계면활성제)

- Emulsifiable Concentrate, EC (유제용)
- Granule, GR (입제용)
- Suspension Concentrate, SC (액상수화제용)
- Spreader (전착제용)
- Wettable Powder, WP (수화제용)
- Dustable Powder, DP (분제용)
- Water-dispersible granule, WG (과립수화제용)

## Solvents & Inorganic Materials & Additives

We are dealing with various solvents and additives for household & industrial products.

가정용/ 산업용 제품에 첨가되는 각종 용제류 및 첨가물들을 취급하고 있습니다.

Solvent	Inorganic Materials	Additive
Ethyl Alcohol	Sodium carbonate(경회)	MEA/DEA/TEA
MEG	NaOH/KOH	효소
BC	Zeolite	방부제(Sodium Benzoate)
BDG	EDTA-4Na/2Na 외	소포제(Silicon/non Silicon)
DMC 외	Sodium sulfate anhydrous(망초)	지방산(야자유 지방산) 외

# 03 LIVING CHEMICALS

## Household Products

### Cosmetic Additives & Other Raw Materials

#### Cosmetic Silicones

Product Name	INCI Name	Packing(kg)
XIAMETER PMX-200 (100CS)	Dimethicone	18/ 200
XIAMETER PMX 1401	Cyclopentasiloxane (and) Cyclotetrasiloxane (and) Dimethiconol	195
XIAMETER PMX 1501	Cyclopentasiloxane (and) Dimethiconol	195
XIAMETER MEM-0949	Amodimethicone (and) cetrimonium chloride (and) trideceth-12	20/ 200
XIAMETER OFX-193C	PEG-12 Dimethicone	200
XIAMETER PMX-0345	Cyclopentasiloxane (and) Cyclohexasiloxane	195
XIAMETER PMX-0245	Cyclopentasiloxane	195
Dow Corning 8500 (DC 8500)	Bis (C13-15 Alkoxy) PG Amodimethicone	18
Dow Corning 556 (DC 556)	Phenyltrimethicone	18
XIAMETER PMX-200 5CS	Dimethicone	20/190
Dow Corning 2501 Cosmetic Wax	Bis-PEG-18 Methyl Ether Dimethyl Silane	16
Dow Corning 9045 (DC 9045)	Cyclopentasiloxane (and) Dimethicone Crosspolymer	15
XIAMETER MEM-1870 (DC2 1870)	Dimethiconol (and) TEA Dodecylbenzenesulfonate (and) Laureth-23	200 / 20
XIAMETER PMX-200 10000CS	Dimethicone	190
ShinEtsu KF-6017	PEG-10 Dimethicone	17
ShinEtsu KF-995	Cyclopentasiloxane	16/ 200
ShinEtsu KF-56A	Diphenylsiloxy Phenyl Trimethicone	18
ABIL® EM 90	Cetyl PEG/PPG-10/1 Dimethicone	50

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## Cosmetic Additives & Other Raw Materials

### Mineral and other additives (무기물 및 기타 첨가제)

Chemical Name / Product Name	Appearance	Usage	Packing
Sodium carbonate(소다회)	White powder or granules	pH 조절제, 유리,비누	25kg 지대
Sodium sulfate anhydrous(망초)	White powder	무기빌더	25kg 지대
Sodium tripoly phosphate	White powder	금속이온봉쇄제, 수처리제, 세제제조용	25kg 지대
Sodium percarbonate	White granular powder	산소계 표백제	25kg 지대
Sodium benzoate	White granules or crystalline powder	방부제	25kg 지대
EDTA-4Na (Ethylene dinitrilotetraacetic acid)	White powder	금속이온 봉쇄제	25kg 지대
EDTA-2Na (Ethylenediaminetetraacetic Acid)	White powder	금속이온 봉쇄제	25kg 지대
SDIC(Sodium dichloroisocyanurate)	White crystalline granular or powder or Tablets	염소계 표백제	50kg 지대
Triclosan	White crystalline powder	항균제	25kg 원통
벤토나이트 (Pink, Green)	Granule	흡수제, 유화안정제	25kg 지대
Zeolite	White fine powder	금속이온 봉쇄제	25kg 지대
SODIUM METASILICATE (5H <sub>2</sub> O/9H <sub>6</sub> ptO)	White crystalline powder	무기빌더	25kg 지대
Citric acid	Granule / Powder	pH 조절제	25kg 지대
효소 (Enzyme)	Green&White powder type / Brown Liquid type	단백질분해효소, 세제	40kg 원통
MEA/DEA/TEA	Liquid	pH 조절제	200kg 드럼
CDE/CDE-G (CACAMIDE DEA)	Liquid	증점제, 기포안정제	200kg 드럼
MEG/DEG	Liquid	PET섬유원료, 부동액	200kg 드럼
Dequest-2066, 2010	Liquid	금속이온 봉쇄제	270/290kg 드럼
Sodium Hydroxide (가성소다)	Granule / Powder	펄프, 비누, 연화제	25Kg
Hydrogen peroxide (과산화수소)	Liquid	산화제, 표백제	20Kg
Sodium citrate (구연산나트륨)	Granule / Powder	감미료, pH 조절제	25Kg
Sodium hypochlorite (차염소산나트륨)	Liquid	표백, 살균	25Kg
Sodium chloride (소금)	Granule / Powder	감미제	25Kg
Potassium hydroxide -KOH(90%)	Granule / Powder	비누, 제약, pH조절제	25Kg
Ammonium Bicarbonate (중탄산암모늄)	White crystalline powder	pH조절제	25Kg
Ammonia water -암모니아수(28%)	Liquid	pH조절제	20Kg
Sodium Bicarbonate (중탄산나트륨)	White crystalline powder	스크럽제, pH 완충제, 탈취제,	25Kg



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## Household Products

### Cosmetic Additives & Other Raw Materials

#### Thickeners

Product Name	INCI Name	Packing
Natural cellulose (천연셀룰로오즈-프)	Cellulose	20
Natrosol 250HHR	Methyl Hydroxyethylcellulose	25
Biosaccharide Gum-1	Biosaccharide Gum-1	25
Carbopol 940	Carbomer	22
Carbopol 934	Carbomer	22
Carbopol 980	Carbomer	20
Carbopol ETD 2020 Polymer	Sodium Acrylates/ C10-30 Alkyl Acrylate Crosspolymer	20

#### Preservatives

Product Name	INCI Name	Packing
Kathon CG	Methylchloroisothiazolinone (and) Methylisothiazolinone	20
1,2-헥산디올	1,2-Hexanediol	20
안식향 소다	Sodium Benzoate	25
기타 (추출물류)		

#### Fatty Alcohols, Conditioning, Emulsifying & Peeling Agents

Product Name	INCI Name	Packing
Stearic acid (스테아린산-70%/98%)	Stearic acid	25
Myristic acid (미리스틱산)	Myristic acid	25
Lauric acid (라우릭산)	Lauric acid	25
Oleic acid (올레인산)	Oleic acid	180
Glycerin (글리세린 -99.5%,USP)	Glycerin	250
Stearyl alcohol (스테아릴 알코올-1898)	Stearyl alcohol	25
Cethyl alcohol (세틸알콜-1698)	Cethyl alcohol	20
Oleyl alcohol (올레일알콜)	Oleyl alcohol	170
Kalcohol(6870)	Cetearyl Alcohol	20
MS-165( aralcel 165)	Glycerol Mono stearate	20
GMS-105	Glyceryl Stearate	25
GMS-205	GLYCERYL STEARATE SE	25
Lico DPG	Dipotassium Glycyrrhizate	1
Sodium stearate (소듐스테아레이트)	Sodium stearate	25
MICONIUM PQ10-J400/ J3000	Polyquaternium 10	25
MIAMI CT130	TEA-Cocoyl Glutamate	100
MIAMI LS190	Sodium lauroyl glutamate	30
MIPEARL GS	Glycol Distearate	20
MIPEARL CO	Cetyl Ethylhexanoate	170
MIPEARL MCT	Caprylic/Capric Triglyceride	170
MIPEARL EGMS	Glycol Stearate	20
Micopol CME	Cocamide MEA	20
MICONIUM STAC80	Steartrimonium chloride	70
MICONIUM STAC30	Steartrimonium chloride	100
MICONIUM CTAC29	Cetrimonium chloride	100
MICONIUM BTAC80	Behentrimonium chloride	20
MICOPOL LDE	Lauramide DEA	20

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## Cosmetic Additives & Other Raw Materials

### Extracts & Oils

Product Name	INCI Name	Packing
Marine Collagen (마린콜라겐)	Water, Butylene glycol, Hydrolyzed collagen	20
Joboba oil (호호바오일)	Hydrogenated Jojoba Oil	25
Grape seed oil (포도씨오일)	Vitis Vinifera (Grape) Seed Oil	20
Apricot kernel oil (살구씨오일)	Prunus Armeniaca (Apricot) Kernel Oil	20
Macadamia nut oil (마카다미아씨오일)	Macadamia Ternifolia Seed Oil	25 / 190
Camellia oil (동백유)	Camellia Japonica Seed Oil	20
Shea butter (쉐어버터)	Butyrospermum Parkii (Shea) Butter	25
Olive oil (올리브오일)	Olea Europaea (Olive) Fruit Oil	20
Squalane(스쿠알란)	Phytosqualane	15
Rapeseed oil (채종유)	Hydrogenated Rapeseed Oil	180
Palm oil (야자유)	Hydrogenated Palm Oil	15
Sunflowers oil (정제해바라기유-refind)	Helianthus Annuus (Sunflower) Seed Oil	20 / 180
Palm oil(정제팜유-refind)	Elaeis Guineensis (Palm) Oil	15
Argan Oil(Organic) (아르간오일)	Argania Spinosa Kernel Oil	5

### Humectants & Waxes

Product Name	INCI Name	Packing
Sorbitol ( 소르비톨 -70%)	Sorbitol	20
DL-Alanin (DL-알라닌)	Alanine	20
Butylene Glycol (1.3-BG )	Butylene Glycol	200
Sodium hyaluronate (히아루론산-1%)	Sodium hyaluronate	20
Arbutin (알부틴)	Arbutin	1
Xylitol (자일리톨)	Xylitol	25
Algin (알진-NSPH2-NY)	Algin	20
Methyl Gluceth-20 (글루캄 E-20)	Methyl Gluceth-20	227
Dipropylene Glycol(DPG)	Dipropylene Glycol	200
Isopropyl Myristate (IPM)	Isopropyl Myristate	175
Propylene Glycol (PG)	Propylene Glycol	
Liquid Paraffin (유동파라핀-LP-70)	Mineral Oil	166
Carnauba wax (카나우바왁스)	Copernicia Cerifera (Carnauba) Wax	25
Ozokerite Wax (오조케라이트 77W)	Ozokerite	22.68
Glycosyl Trehalose (Tornare-항염)	Glycosyl trehalose	24
L-Arginine (L-아르기닌)	Arginine	25
L-Lysine Monohydrochloride (L-라이신 염산염)	Lysine HCL	20
Niacinamide(B3) (나이아신아마이드 PC)	Niacinamide	20
Pyridoxine (Vit. B6 HCL-피리독신)	Pyridoxine	20
VitapheroL_natural oil ( Vit. E )	Tocopheryl acetate	20
Vitamin E Acetate	Tocopheryl Acetate	5
Tocopherol (Vit.E-토코페롤)	Tocopherol	5
Ascorbic Acid (비타민C)	Ascorbic Acid	25
Zinc Oxide (Z-cote HP)	Zinc Oxide	22
D-panthenol(D-판테놀 :B5)	D-panthenol Panthenol	25
Luviskol VA64W	VP/VA Copolymer	120
Carrageenan (카라기난)	Chondrus Crispus (Carrageenan)	25