



富寶信材料股份有限公司

環綺國際貿易股份有限公司

WWRC Group & TBIM

2024



WWRC and TBIM Introduction



WWRC group total revenue: \$290 million 2023.

TBIM is a subsidiary company of WWRC Taiwan and focus on EL

- **Electronic 電子** 
- Polymer/resin 高分子
- Coating & ink 塗料
- Construction 建築
- Plastic/rubber 塑膠
- Adhesive 添加劑
- Cosmetics 化妝品
- Pharmaceutical 醫藥
- Textile 紡織
- Lubricants/Metal-working
- 潤滑油



2022 ICIS TOP100 Chemical Distributor Ranking

SPECIAL REPORT TOP 100 CHEMICAL DISTRIBUTORS

Asia Pacific chemical distribution leaders (2022 sales, \$m)

Rank	Company	Sales (\$m)	Rank	Company
1	NAGASE & CO	4,603.8	39	Rakha Al-Kl Internation
2	Tricon Energy	3,608.0	40	Shanghai S Developme
3	Sunrise Group	3,593.1	41	TER Group
4	Sinochem Plastics	3,503.6	42	REDA Cher
5	Brenntag	2,378.3	43	Wego Cher
6	Mitsubishi Shoji Chemical	1,552.8	44	Prakash Ch
7	IMCD	1,136.6	45	McKinn Int
8	Stavian Chemical	910.0	46	RishiChem
9	Kolmar Group	819.8	47	Shrieve Ch
10	Azelis	802.8	48	Nordmann,
11	Behn Meyer Group	799.6	49	Taj Al Mulo Trading
12	Redox	796.7	50	Ankush Ent
13	TOPNEXT International (formerly TOP Solvent)	645.6	51	S. Kushalch Internation
14	Junan Resources	600.0	52	Norkem Hc
15	Pon Pure Chemicals Group	496.5	53	Bodo Molle
16	KLJ Resources	493.5	54	Telko
17	Omya	400.3	55	Rebain Inte
18	Pertamina Petrochemical Trading	391.0	56	Simagcher
19	Ramniklal S. Gosalia & Co	340.0	57	Connect C
20	Petrochem Middle East	330.0	58	PHT Intern
21	Jebsen & Jessen Group	297.3	59	Novasol Ch
22	CellMark	284.0	60	INMATRAD
23	WWRC Holding	230.0	61	Equilex Ch
24	KPL International	228.9	62	Saiper Che
25	Sanjay Chemicals	200.9	63	Algol Chen
26	Manuchar	158.0	64	RAHN Grot
27	Sri Balaha Chemicals	139.0	65	Continenta Group
28	Barentz	127.7	66	Prakash Ch Internation
29	NEO Chemical	108.0	67	An Loc Pha
30	Biesterfeld	102.0	68	WISTEMA
31	Polmann India	100.0	69	Am Med
32	Montachem International	100.0		
33	Guangzhou Lify Chemicals	100.0		
34	Union Petrochemical	92.8		

WWRC Holding was listed in ICIS Top 100 Asia Pacific Chemical distribution leaders (Ranking NO.23)

2023 Group Turnover was approx. USD 230 million with 220 employees.

WWRC Group Footprints

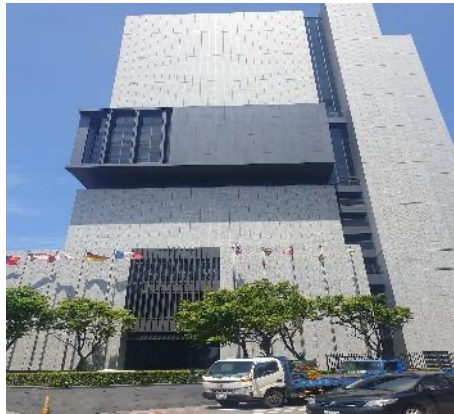


★ HQ

● Office

● Lab

WWRC Taiwan Co., Ltd.



Taipei sales office
桃園辦事處



嘉義大埔美工業區
R&D center and warehouse

- Storage capacity of 4000mt
- Land Area of 20,000m²



高雄總公司
Company Profile

- Established in 1989 創辦
- Manpower of 40 people
(Including 20 Sales Personnel)

Taiwan Office location



Our Expertise

Technical Support-Taiwan



- Situated on Land Area of 20,000m²
- Provides Internal Education tool
- 3 Application Laboratories
- Supports customers and principals on quality issues
- Warehouse Facility
- Dangerous/Flammable Good Warehouse
- Blend/Toll Manufacturing Facility

Lab function- technical service

- Product analysis – GC and instruments
- Resin synthesis
- Plastic compound/ master batch
- Coating formulation comparison
- Match right formulation
- Adhesive development



Warehouse

- WWRC owns and manages 12 warehouses across Asia with storage space exceeding 60,000 M²
- We do have three warehouse located in Taiwan 20,000M²



- 儀器設備 Product analysis – GC, HPLC, Karl Fisher Titrator, and common instruments
- 樹脂合成 Resin synthesis
- 塑膠 Plastic compound/ master batch
- 塗料 Coating formulation comparison
- 配方比對 Match right formulation

Our Coating/Personal Care Technical Lab

In Taiwan



Plastic



AUTOMATIC HYDRAULIC MOLDING MACHINE

- 1.comparison pigments
- 2.heat stability (pigments)

Two-Roller

- 1.heat stability
2. Dispersion pigments



Instruments



Agilent ICP-MS
於超微量重金屬分析



Karl Fischer titrator
- Coulomb type
- Measuring water content



Synthesize: - Synthesis
polymer



■ **Centrifuge**
- Stability test.
- Separate substance

Instruments



- **Melting Point meter**
 - Room temp to 300°C



- **MULTI-LIGHT OR COLOR MATCHING CABINET**
 - Comparison color at different light source
 - 4 light source : D65/CWF/A/UV

Instruments



- **ELECTRIC FURNACE**
 - Temp. range 0-1200°C
 - Measuring ash content



- **Oven**
 - Temp. range to 300°C
 - Measuring moisture content / VOC
 - Curing & drying process

Electronic instruments



- **Gas chromatography- FID**
 - Purity and composition comparison.

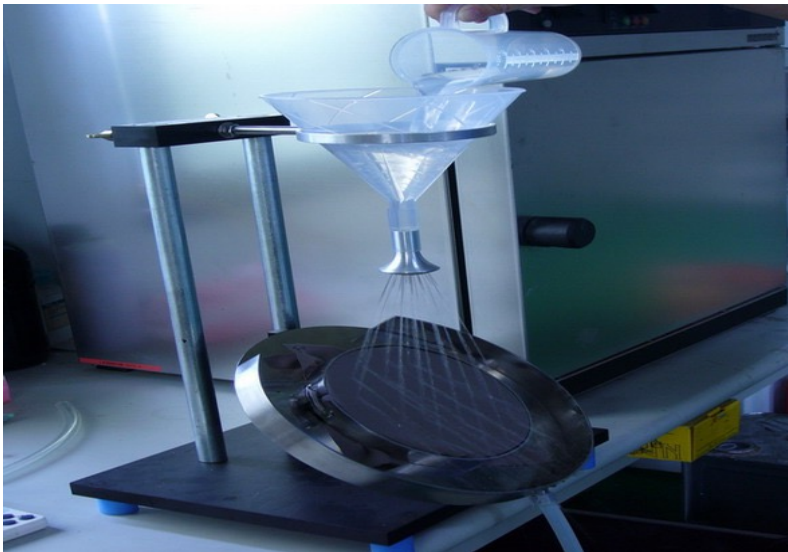


- **HPLC**
 - Different detector :
UV / ELSD/ Cond.
 - Purity and composition comparison.

Textile instruments



- **Paddle**
- Dyeing machine



- **Water repellent tester**
- Correspond to AATCC 22
- Less wetting is good.

Dangerous Cargo Warehousing

- We are concern about environmental and safety issue therefore we setup modern and 100% meet with Taiwan government regulation and law warehouse
- ESG- society duty - -企業社會責任
- Individual dangerous cargo warehouse



Electronics Exhibition



WACKER

汽車電子 封裝膠
Encapsulant
SILGEL® 612
ELASTOSIL® RT941/943
SEMICOSIL® 915HT
SEMICOSIL® 949UV
SEMICOSIL® 988 Grey

瓦克有機矽
—無可替代的粘接和密封材料

LUMISIL®

MEMS 封裝膠
Die Attach SEMICOSIL® 200
Die Coating SEMICOSIL® 200
Underfill SEMICOSIL® 964

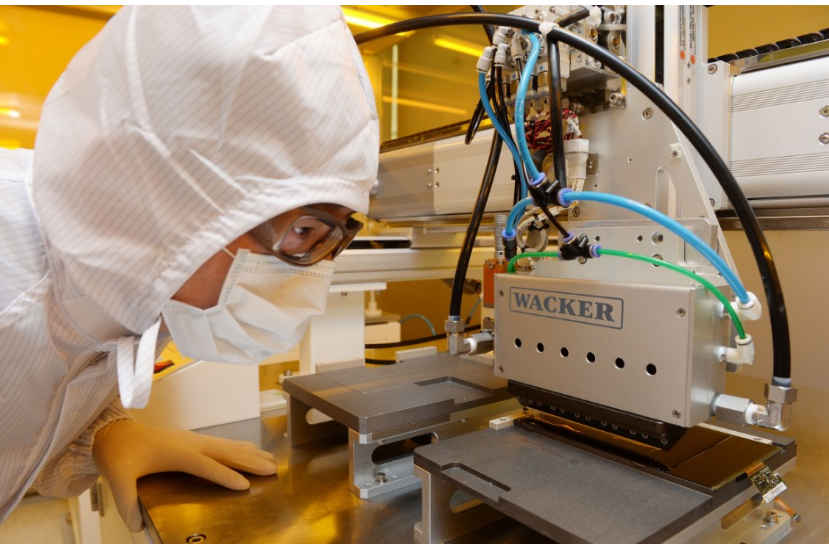
LED 封裝膠
HRI:LUMISIL® SX0 Series
NRI:LUMISIL® 7X0 Series
LENS:LUMISIL® LR 7601

專車機台塗佈

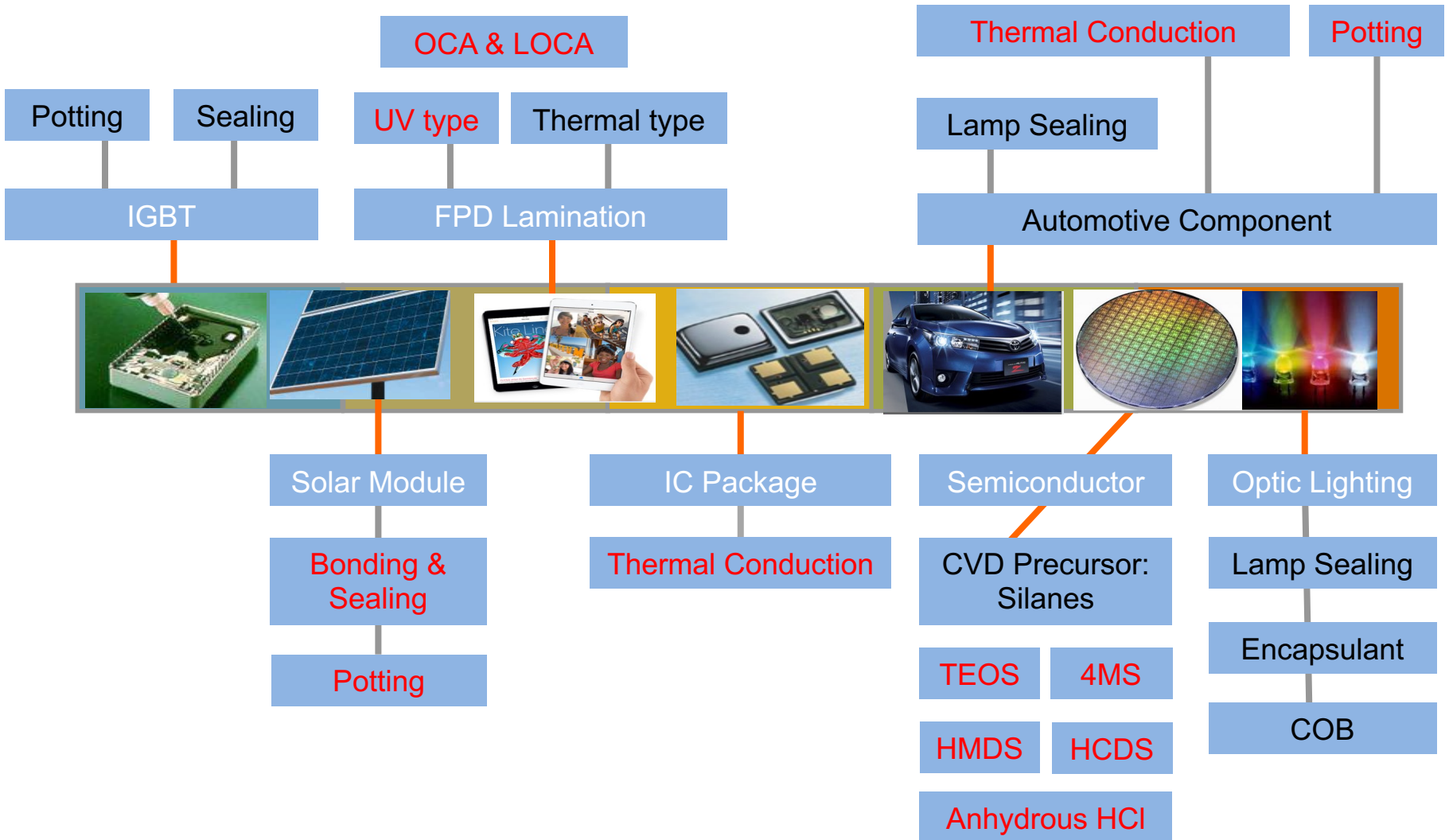
車台	100	200	300	400	500	600	700	800	900	1000
100	1	1	1	1	1	1	1	1	1	1
200	1	1	1	1	1	1	1	1	1	1
300	1	1	1	1	1	1	1	1	1	1
400	1	1	1	1	1	1	1	1	1	1
500	1	1	1	1	1	1	1	1	1	1
600	1	1	1	1	1	1	1	1	1	1
700	1	1	1	1	1	1	1	1	1	1
800	1	1	1	1	1	1	1	1	1	1
900	1	1	1	1	1	1	1	1	1	1
1000	1	1	1	1	1	1	1	1	1	1

遠端機台解決方案
LOCA:
LUMISIL® 20X UV Series
LUMISIL® 10X Series

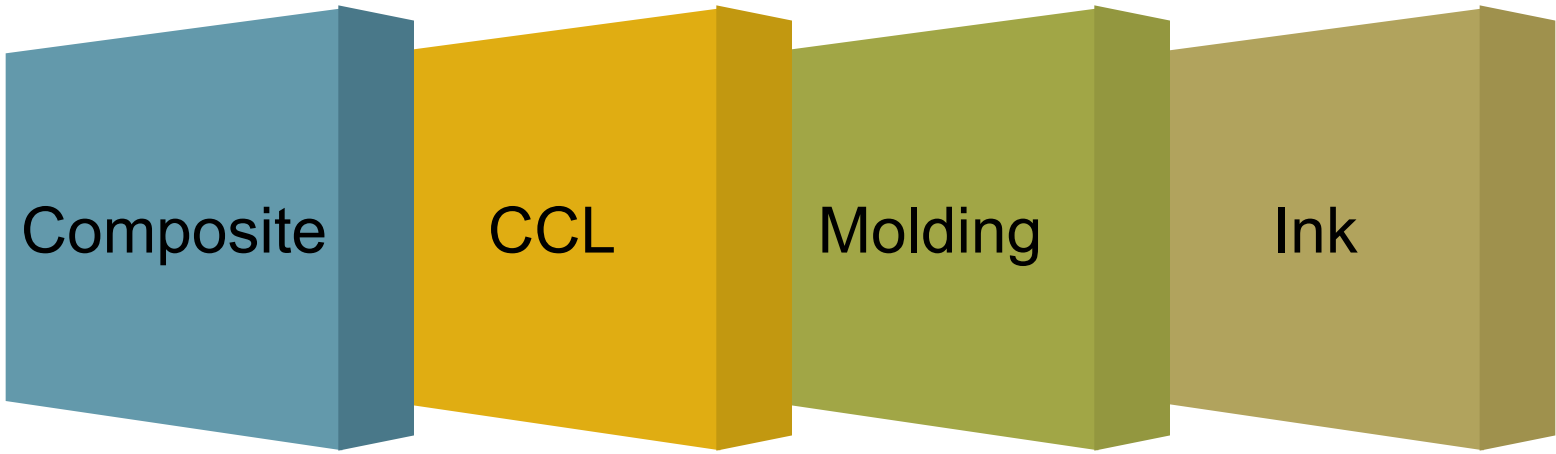
吸蝕



Product 1: Wacker Silicone & Silane



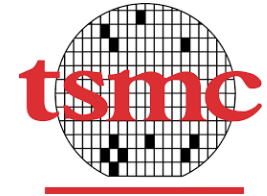
Product 2 : Functional Chemical



Product 3 : EL Special Gas

	CLEANING	DEPOSITON	DOPING	ETCH	LITHO
HCl		V			
N ₂ O		V		V	
SF ₆	V			V	
CF ₄	V			V	
BCl ₃				V	
CHF ₃				V	
C ₂ H ₂				V	
C ₂ H ₄		V			
CO ₂					V
C ₂ F ₆	V	V		V	
1%B ₂ H ₆ /H ₂			V		

Customer List



力晶積成電子



NANYA



Nanmat Technology Co., Ltd
南美特科技



加高電子
HARMONY ELECTRONICS

INNOLUX
群創光電

WE SIMPLY IMPROVE EVERYTHING

Thanks for your listening.