



# EXCILON<sup>®</sup> PRODUCT BROCHURE

Focus on Ceramic Coating Technology for 20 Years



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# GLOBAL 500+ BRAND PARTNERS





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EXCILON PARTNERS



## COMPANY PROFILE

Shanghai Excilon, established in 2003, has always stood at the forefront of the field of ceramic coatings. We focus on R&D, Production and Sales of water-based ceramic coatings. It has excellent performance and characteristics, which has been widely recognized by the customers and market. Our innovation is not only reflected in the technical aspect which has 47 invention patents authorized, but also reflected in the application aspect, as the first supplier in China who introduced ceramic technology to cookware, bakeware, aluminum panel, wall paint, and brought new possibilities to whole industry. Excilon is a pioneer in ceramic coating industry, and commits to providing leading products, professional solutions and services, to creating added-value for customers, to invigorating vitality into the industry development

## Culture



### Vision

A healthy life and a beautiful environment are inseparable from new material technology



### Mission

Create win-win opportunities for customers, employees, partners, and investors through the development and application of new materials



### Values

Integrity, Embrace & Drive Change, Results-Oriented, Deliver Solutions for Success



# EXCILON HISTORY

2004

**Ceramic Coatings  
Launched for Stove  
Application**

Become the industry pioneer to  
enter the Chinese stove market

2003

**Shanghai Excilon  
Established**

Become the 1st ceramic  
coating supplier in China

2007

**Designated Coating for  
Beijing Olympic Torch**

Stood out from 200 competitors  
and become an official supplier  
for 2008 Beijing Olympic Games

2009

**Ceramic Coatings  
Launched for  
Non-stick Cookware  
Application**

Become the industry pioneer  
to enter the Chinese cookware  
market

2011

**“National high-tech  
Enterprise” Awarded**

Become the 1st National High-Tech  
Enterprise in ceramic coating industry

2013

**“Shanghai Technical  
Little-Giant Enterprise”  
Awarded**

Become the 1st awarded coating  
company in Shanghai

2014

**Ceramic Coatings  
Launched for Aluminum  
Facade Application**

Become the industry pioneer to  
enter the Chinese aluminum facade  
market

2015

**Listed on new OTC  
market in China**

Stock Code: 831819

2020

**Ceramic Coatings  
Launched for Wall & Ceiling  
Application**

Become the industry pioneer to enter  
the Chinese Wall & Ceiling paint market

2023

**Annual Production  
Capacity Exceed  
10,000 Tons**

Lay the foundation of Excilon  
to become the industry  
leader worldwide



# COOKWARE COATING INTERIOR



Item	2000 Series	2050 Series	2150 Series
Gloss(60°)	≥50		
Hardness	≥8H		
Adhesion	≤Grade 2		
Abrasion Resistance	≥10000 cycles	≥20000 cycles	≥30000 cycles
LGA	≤3 Satisfied		
Non-stick Durability	≥100 eggs	≥200 eggs	
Non-stick after Carbonization	≥10 cycles	≥20 cycles	
Non-stick after Heating	≥5 cycles	≥20 cycles	
Non-stick after Abrasion	≥1000	≥2000	≥6000



# COOKWARE COATING EXTERIOR



Item	2070 Series	2170 Series
Gloss(60°)	≥50	
Hardness	≥8H	
Adhesion	≤Grade 2	
Acid Resistance	No cracks, wrinkles, discoloration	
Alkali Resistance	No cracks, wrinkles, discoloration	
Abrasion Resistance	≥10000 cycles	
Stain Clean	≥5 cycles	≥25 cycles
Dishwasher Safe	≥30 cycles	



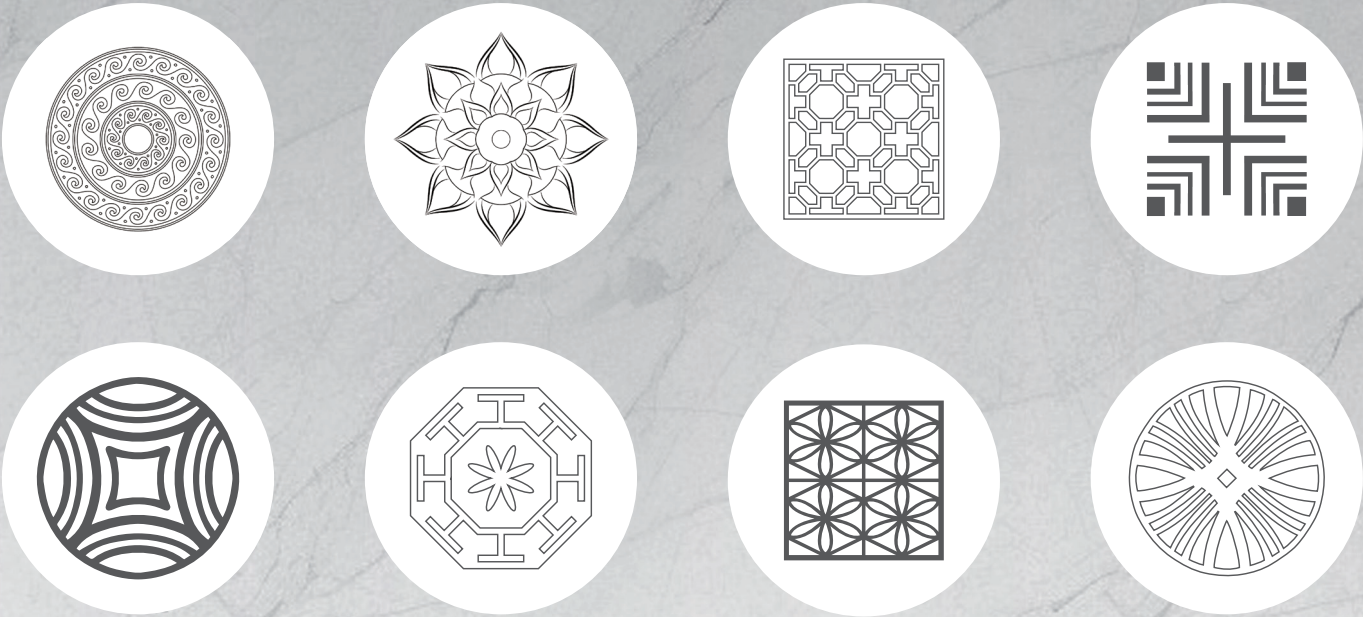


# COOKWARE COATING

## SCREEN PRINT APPLICABLE



### Common Screen Pattern Examples



Item	2060 Series		2660 Series
Gloss(60°)	≥40		
Hardness	≥8H		
Adhesion	≤Grade 2		
Acid Resistance	No cracks, wrinkles, discoloration		
Alkali Resistance	No cracks, wrinkles, discoloration		
Abrasion Resistance	≥10000 cycles		
Non-stick after Heating	≥3 cycles		≥8 cycles
Dishwasher Safe	≥30 cycles		≥50 cycles
Screen Print	Yes		



STOVE COATING



Item	5000 Series		5010 Series
Gloss(60°)	≤40		
Pencil Hardness	≥8H		
Adhesion	≤Grade 2		
Thermal Shock	No cracks, wrinkles		
Combustion Resistance	No discoloration		
Pigment Limit Combustion Resistance	1000℃		700℃

Item	5020 Series	5030 Series	5040 Series	5320 Series
Gloss	≥50			
Hardness	≥8H			
Adhesion	≤Grade 2			
Abrasion Resistance	≥10000 cycles			≥20000 cycles
LGA	≤3 Satisfied			≤2.5 Satisfied
Scratch Resistance	Slight Scratch			No Scratch
Non-stick after Heating	≥10 cycles			
Stain Clean	≥5 cycles			
Anti-bacteria	/	≥99.9%	/	/
Appearance	/	/	Stone-like	/





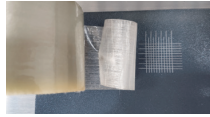

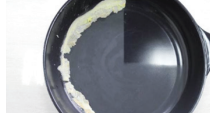


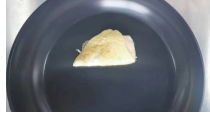



# ELECTRIC COATING












Item	8000 Series	8030 Series	8040 Series	8050 Series
Gloss			≥50	
Hardness			≥8H	
Adhesion			≤Grade 2	
Abrasion Resistance			≥10000 cycles	
LGA			≤3 Satisfied	
Non-stick Durability		≥100 eggs		≥10 eggs
Boiling Resistance		≥120h	≥400h	≥120h
Thermal Shock		≥10 cycles		
Anti-bacteria	/	≥99.9%	/	/
Single Layer	/	/	/	Yes

Item	8100 Series	8130 Series
Gloss		≥50
Hardness		≥8H
Adhesion		≤Grade 2
Abrasion Resistance		≥50000 cycles
LGA		≤3 Satisfied
Non-stick Durability		≥100 eggs
Non-stick after Heating		≥3 cycles
Non-stick after Carbonization		≥10 cycles
Anti-bacteria	/	≥99.9%



# PERFORMANCE TEST METHOD

Item	Test Method Description	
Gloss		GB/T 9754 Gloss Measurement (60°)
Hardness		GB/T 6739 Pencil Hardness
Adhesion		GB/T 9286 Cross-cut Test
Abrasion Resistance		GB/T 32095.2 Flat Abrasion Test 3M7747C Scotch-Brite replaced each 500 cycles, 0.5% detergent solution, 3KG downward force
LGA		2 PFG-Q 1384 LGA Test
Non-stick Durability		Q/SHYCL 005 Non-stick Test 190~210°C, fry eggs without edible oil
Non-stick after Carbonization		Q/SHYCL 005 Non-stick Test after Carbonization Each cycle fill the workpiece with milk, heat it until the milk is completely carbonized, and rinse with water
Non-stick after Heating		Q/SHYCL 005 Non-stick Test after Heating Baking at 300°C for 30 mins, then fry 10 eggs at 160~180°C without edible oil
Non-stick after Abrasion		Q/SHYCL 005 Non-stick Test after Abrasion 3M7747C Scotch-Brite replaced each 250 cycles, 0.5% detergentsolution, 1.5KG downward force Fry 3 eggs without oil after every 1000 abrasion cycles
Acid Resistance		Q/SHYCL 005 Acid Resist Test Inject 5% acetic acid solution into the sample, when the liquid level is more than 2/3 of the height of the sample, cover the pot and observe the coating after 24 hours
Alkali Resistance		Q/SHYCL 005 Alkali Resist Test Inject boiling 20% sodium carbonate solution into the sample, when the liquid level is more than 2/3 of the height of the sample, observe the coating after 2 hours

Item	Test Method Description	
Exterior Stain Clean		Q/SHYCL 005 Exterior Easy Clean Test Heat up the cookware to 350 °C, and quickly pour the mixture (10% salt, sugar, Vinegar, soy sauce) on the outer wall surface. Once it dried, rinse it with water and clean with cotton cloth
Dishwasher Safe		Q/SHYCL 005 Dishwasher safe Test Place in the dishwasher and add detergent, set cookware washing model, check after each cycle
Cake Stripping		Q/SHYCL 005 Cake Stripping Test Use the cake mix, bake at 180-230 °C for 25-30min, then turn and release the mold without cleaning, and each cycle continues after wiping
Non-stick after BBQ		Q/SHYCL 005 BBQ Test Each cycle place a piece of beef or chicken steak in and bake it at 180 °C, and then remove steak without adhesion and coating has no discoloration
Combustion Resistance		Q/SHYCL 005 Combustion Test Observe the discoloration after continuous burning for 1h
Pigment Limit Combustion Resistance		Q/SHYCL 005 Limit Combustion Test Observe the discoloration after continuous burning with a high-temperature firegun for 1min
Thermal Shock		Q/SHYCL 005 Thermal Shock test Each cycle heat to 300°C, and then rinse with tap water to room temperature
Scratch Resistance		Q/SHYCL 005 Scratch Resistance test Wipe with a steel ball or 3M7747C Scotch-Brite and observe the coating
Interior Stain Clean		Q/SHYCL 005 Interior Stain Clean Test After soda wash and dry, bake at 300 °C for 20 minutes. Draw with marker and wipe clean for 1 cycle
Boiling Resistance		Q/SHYCL 005 Boiling Test Boil demi water and observe the coating
Anti-bacteria		GB/T 21866 Anti-bacteria Test Quantifications of E. coli and Staphylococcus aureus were introduced, and the remaining colonies were tested after a period of time

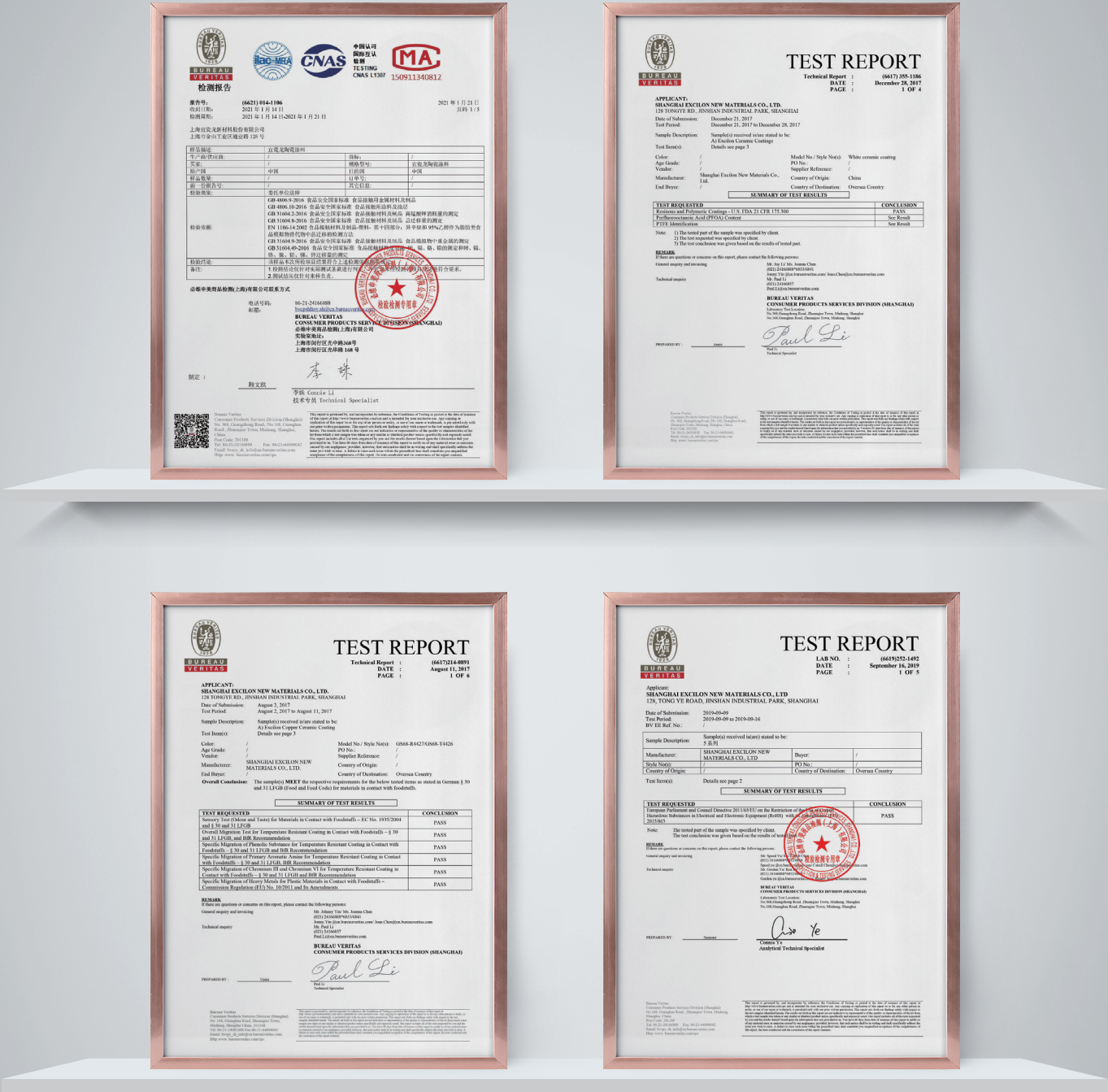


# COLOR TREND

Excilon water-based ceramic coating not only has excellent performance but also rich color, which can meet the decorative needs of different occasions



# TEST REPORT





# PROCESS EXCELLENCE



G60 New Materials  
Industry Research Center

Academician

2

Employees

PhD

10

Employees

MSc

16

Employees

BSc

25

Employees

Lab area

3000

m<sup>2</sup>

## Coverage of key kitchenware manufacturers:

Zhejiang province: 92%

Guangdong province: 76%

Other provinces: 60%

## Service Concept



Accurate Sample



Stable Quality



Excellent Performance



Fast Response



Prompt Delivery



Satisfying Experience



# EXCILON PARTNERS

	FOTILE 方太	Joyoung 九阳		SUPOR 苏泊尔	ASD 爱仕达
	SIEMENS			SENG 森歌 高 端 集 成 灶 品 牌	GIBSON HOMEWARES
OPPEIN 欧派			BergHOFF®		 网易严选
Haier		ROBAM 老板	A.O. SMITH 史密斯		 LOCK & LOCK
	NAMETA cook & table ware				
SILAG					allinox
	Baccarat				 xiaomi

