Technical Data Sheet - 2000 Series

Product Features: Excilon® 2000 series is a nano-inorganic ceramic coating product that meets food contact safety certification and has high hardness, abrasion resistance, high temp. resistance, easy cleaning, corrosion resistance and rich color creativity.

Application: It is suitable for the inner and outer surfaces of various types of cookware (such as frying pans, bakeware, soup pots, etc.) with aluminum alloy, stainless steel and other substrates. In addition to providing decoration and protection, it can also provide products with different functional characteristics.

Performance:

Item	Test method	Performance
Food safety	FDA 21 CFR 175.300	Pass
	EC 1935/2004	Pass
	LFGB and BfR Recommendation	Pass
	DGCCRF MCDA n°2	Pass
	RoHS 2011/65/EU, REACH (EC) No 1907/2006	Pass
	PFOA (3% acetic acid, 100°C, 2hrs, LCMS analysis)	Not Detected
	PFAS (TCPH: 2021)	Not Detected
Total Fluorine content	EN 14582 (Ion Chromatography methods)	≤100 mg/kg
Viscosity Cup #4	GB/T 6753.4-1998	11-14s
Gloss	GB/T 9754-2007	≥40
Hardness	GB/T 6739-2006	≥8H
Adhesion	GB/T 9286-2021	Grade 1
Abrasion Resistance	3M7747C Scotch-Brite, 250 cycles replaced, 0.5% detergent solution, 3KG downward force	≥10,000 cycles
	LGA test	≤3
Temperature Shock	300°C in oven for 30 min, then put into tap water	≥10 cycles
Acid Resistance	5% acetic acid solution, 100°C 10 minutes, 24hrs	Pass
Alkali Resistance	5% soda solution, 24hrs	Pass
Non-stick after Heating	Each cycle: Baking at 300°C for 30 mins, then fry 10 eggs at 160~180°C without edible oil.	≥4 cycles

Precautions:

Storage conditions & period: Store in a cool, dry, and dark warehouse, ≤90 days