TECHNICAL DATA SHEET

Water-Based Aqueous Coating Paper Cups Series

Company Name: Xiamen Bioleader Environmental Protection Technology Co., Ltd.	**Document No.:** TDS-Bioleader-2026.1	**Version:** 2026.1
Product Category: Water-Based Aqueous Coating Paper Cups	**Country of Origin:** China	**Website:** www.bioleaderpack.com

1. MATERIAL DATA

Property	Specification
Material	Food-grade paperboard with water-based aqueous barrier coating
Paper Type	White paperboard / Kraft paperboard
Base Paper Grammage	170 – 300 gsm (±3%)
Coating Weight	12 g/m², single side (internal control reference)
Moisture Content	target 7.0% (internal control reference)
Plastic Lamination	No PE / Plastic lamination
Edge Penetration	≤ 4 mm
Manufacturing Process	Paper coating, printing, die-cutting, cup/bowl forming
PFAS Status	PFAS-Free (No added fluorine) / Conventional, depending on selected coating system
Leakage Resistance	No leakage under specified test conditions
Temperature Range	Freezer safe to -20°C; Hot up to 95-100°C
Compostability	Industrially & Home compostable
Biodegradability	Biodegradable under industrial composting conditions
Food Contact Compliance	In accordance with applicable food contact standards
Application	Suitable for selected hot/cold beverage or takeaway food applications, depending on SKU validation

2. PRINTING & DECORATION SPECIFICATION

Property	Specification
Printing Method	Flexographic printing
Ink Type	Water-based printing ink / food packaging compliant ink
Printing Position	Outside surface only

Printing Colors	Up to 6 colors, subject to artwork confirmation
Color Standard	Pantone reference or CMYK process printing
Printable Area	Side wall printing available; final layout subject to item size and forming structure
Printing Performance	Smooth printable surface with good ink adhesion under normal application conditions
Limitation	Direct food contact on printed surface is not recommended unless separately validated
Note	Final printed color and appearance may vary slightly depending on paper type, coating surface, artwork coverage, and production conditions
Leakage Resistance	No leakage under specified test conditions
Temperature Range	Freezer safe to -20°C; Hot up to 95-100°C
Compostability	Industrially & Home compostable
Biodegradability	Biodegradable under industrial composting conditions
Food Contact Compliance	In accordance with applicable food contact standards
Application	Suitable for selected hot/cold beverage or takeaway food applications, depending on SKU validation

3. Product Dimensions & Packing Data

ITEM	Product	Paper Weight	Product Size (Top*Bottom*High)	Pcs/ CTN	Carton Size (cm)			Cube /CTN
Single Wall ------Hot Cup								
PLA-SW2.5	Single Wall 2.5oz	170GSM+12g aqueous coated	55*40*54	2000	45.5	29	32	0.0422
PLA-SW04	Single Wall -4oz	210GSM+12g aqueous coated	62*45*61	2000	50.5	32	35	0.0566
PLA-SW05	Single Wall -5oz	210GSM+12g aqueous coated	67*47*72	2000	55	28.5	36	0.0564
PLA-SW07	Single Wall -7oz	230GSM+12g aqueous coated	73*54*82	2000	62	38	40	0.0942
PLA-SW08	Single Wall -8oz	250GSM+12g aqueous coated	80*56*94	1000	41	33	49	0.0663
PLA-SW10	Single Wall -10oz	280GSM+12g aqueous coated	90*59*93	1000	46	37.5	45.5	0.0785
PLA-SW12	Single Wall -12oz	280GSM+12g aqueous coated	90*60*112	1000	46	37	49	0.0834
PLA-SW14	Single Wall -14oz	280GSM+12g aqueous coated	90*62*124	1000	46	37	56	0.0953
PLA-SW16	Single Wall -16oz	300GSM+12g aqueous coated	90*62*136	1000	46	37	60	0.1021
PLA-SW20	Single Wall -20oz	300GSM+ 12g aqueous coated	90*64*151	1000	45.5	37.5	63	0.1075
PLA-SW22	Single Wall -22oz	300GSM+12g aqueous coated	90*63*169	1000	45.5	37.5	68	0.1160
PLA-SW24	Single Wall -24oz	300GSM+12g aqueous coated	90*64*177	1000	46.5	37.5	69	0.1203

Note: In double wall cup structures (hollow wall or corrugated wall), the inner layer paper specification remains the same as that of the corresponding single wall cup. The outer layer is uncoated paper and functions only as an external insulating layer.

Product Images







Product Page:
https://www.bioleaderpack.com/water-based-coated-paper-cups-un-coated-no-plastic-eco-friendly-compostable/

4. COMPLIANCE & CERTIFICATES

Category	Details
Compostability	BPI, OK Compost, EN 13432, ASTM D6400
Food Contact	FDA 21 CFR, EC No. 1935/2004, LFGB
Chemical Safety	PFAS-Free, PFOA-Free, PFOS-Free
Quality System	ISO 9001:2015, BRC

Certificates and Test Reports Download: https://www.bioleaderpack.com/certificate/

5. STORAGE

Item	Details
Storage	● Store in a cool, dry, standard warehouse ● Keep away from direct sunlight, heat, and high humidity ● Avoid long-term storage under high-temperature transport conditions ● Not recommended for oven use unless separately validated ● Microwave suitability only if specifically tested for the exact SKU ● Product performance may vary depending on filling temperature, holding time, oil content, sealing structure, and actual transportation conditions
Shelf Life	36 months under proper storage conditions
Limitation	Oven use only if specifically tested
Note	Product performance may vary depending on actual application conditions

6. MANUFACTURER

Manufacturer: Xiamen Bioleader Environmental Protection Technology Co., Ltd.
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Brand: Bioleader (OEM Customized Acceptable)
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