

Eco-friendly Products
For a clean World

HANCHANG PAPER

Greenus

100% Compostable & Biodegradable

Eco-friendly Business

We make **Nature** by **Nature**

Greenus is our Eco-friendly brand.

These products are safe and reliable through strict Quality Control System, having passed various Eco-friendly certifications not only in the local but also international.



No! CO₂



No! Pollution



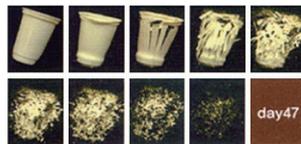
No! Harmful Environmental Hormone

Eco-friendly Materials



Greenus products are environmentally Friendly biodegradable products based on Natural raw materials.

PLA Material



※ Source from Nature Works

When buried in the ground, these are completely decomposed into water and CO₂ or methane gas by microorganisms such as bacteria and fungi.
(Temperature: 60°C/ Humidity: 90% base)

NatureWorks

Poly Lactic Acid (PLA)?

① Base material

It's vegetable starch.



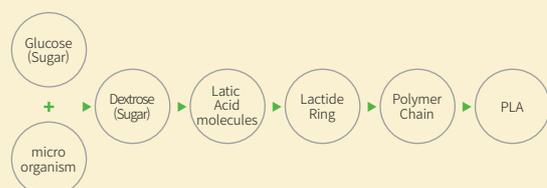
② Photosynthesis

Plants produce glucose and oxygen after photosynthesis with CO₂, water and sugar



③ Polymerization of glucose

Glucose made from plant's photosynthesis is made into PLA by fermentation / polymerization / purification by microorganisms.



Greenus Hot Cup

Generic Cup

Made of 1side PLA coated cupstock board



- Natureworks LLC's Ingeo used
- 100% compostable
- Certified by BPI - Biodegradable Products Institute
- Certified by Seedling
- Certified by OK-Compost
- FDA approved for food safety in U.S
- LFGB 30&31, (EC)No.1935/2004 approved for food safety in Europe
- FSC certified



Sugarcane Cup

Made of 1side PLA coated 100% sugarcane cupstock board



- Natureworks LLC's Ingeo used
- 100% compostable
- Certified by BPI - Biodegradable Products Institute
- Certified by Seedling
- Certified by OK-Compost
- FDA approved for food safety in U.S
- LFGB 30&31, (EC)No.1935/2004 approved for food safety in Europe

Items No.		SIZE				Common LID	Box Dimention				Printing (Order made)
		Top Diameter	Base Diameter	Height	Weight		cups /ctn	L	W	H	
4oz	GR-CU-4	61.9	46.3	63.3	3.8		1,000	325	265	365	Flexo Gravure Offset 1~4 color
6oz	GR-CU-6	70.0	50.0	78.3	5.1		1,000	395	320	365	
7oz	GR-CU-7	72.5	51.0	79.3	5.4		1,000	400	325	365	
8oz	GR-CU-8	79.8	52.0	94.5	7.9	GR-LD-80	1,000	410	330	435	
10oz	GR-CU-10	89.7	65.5	90.0	9.8	GR-LD-90	1,000	460	370	490	
12oz	GR-CU-12	89.7	60.0	108.0	10.8	GR-LD-90	1,000	455	370	515	
16oz	GR-CU-16	89.7	59.0	137.0	12.9	GR-LD-90	1,000	460	370	660	
20oz	GR-CU-20	89.7	62.0	149.0	13.3	GR-LD-90	1,000	460	370	650	

Greenus Cold Cup

Generic Cup

Made of both sides PLA coated cupstock board



- Natureworks LLC's Ingeo used
- 100% compostable
- Certified by BPI - Biodegradable Products Institute
- Certified by Seedling
- Certified by OK-Compost
- FDA approved for food safety in U.S
- LFGB 30&31, (EC)No.1935/2004 approved for food safety in Europe
- FSC certified



Sugarcane Cup

Made of both sides PLA coated 100% sugarcane cupstock board



- Natureworks LLC's Ingeo used
- 100% compostable
- Certified by BPI - Biodegradable Products Institute
- Certified by Seedling
- Certified by OK-Compost
- FDA approved for food safety in U.S
- LFGB 30&31, (EC)No.1935/2004 approved for food safety in Europe

Items No.		SIZE				Box Dimention				Printing (Order made)
		Top Diameter	Base Diameter	Height	Weight	cups /ctn	L	W	H	
12oz	GR-CU-12	89.7	60.0	108.0	10.8	1,000	455	370	515	Flexo Gravure Offset 1~4 color
16oz	GR-CU-16	89.7	59.0	137.0	12.9	1,000	460	370	660	
20oz	GR-CU-20	89.7	62.0	149.0	13.3	1,000	460	370	650	
22oz	GR-CU-22	89.1	61.5	168.8	14.2	1,000	450	360	650	
32oz	GR-CU-32	108.4	73.5	175.0	17.3	500	552	443	430	

Greenus Soup Bowl

Generic Soup Bowl

Made of 1side PLA coated cupstock board



- Natureworks LLC's Ingeo used
- 100% compostable
- Certified by BPI - Biodegradable Products Institute
- Certified by Seedling
- Certified by OK-Compost
- FDA approved for food safety in U.S
- LFGB 30&31, (EC)No.1935/2004 approved for food safety in Europe
- FSC certified



Sugarcane Soup Bowl

Made of 1side PLA coated 100% sugarcane cupstock board



- Natureworks LLC's Ingeo used
- 100% compostable
- certified by BPI - Biodegradable Products Institute
- certified by Seedling
- certified by OK-Compost
- FDA approved for food safety in U.S
- LFGB 30&31, (EC)No.1935/2004 approved for food safety in Europe

Items No.		SIZE				Box Dimention				Printing (Order made)
		Top Diameter	Base Diameter	Height	Weight	cups /ctn	L	W	H	
8oz	GR-BW-8	89.5	74.0	60.0	6.3	1,000	465	375	415	Flexo Gravure Offset 1~4 color
12oz	GR-BW-12	114.6	94.0	62.5	10.9	500	595	245	415	
16oz	GR-BW-16	114.6	94.0	76.5	12.5	500	585	245	630	
24oz	GR-BW-24	114.6	88.1	106.0	14.5	500	585	490	320	
32oz	GR-BW-32	114.6	78.5	147.0	18.0	500	585	490	370	

Greenus Lid



Greenus Lid

Made of PLA

- Natureworks LLC's Ingeo used
- 100% compostable



Items No.		SIZE	Common Cup size	Box Dimention			
		Top Diameter		cups/ctn	L	W	H
Medium	GR-LD-80	80.0	Hot Cup 8oz	1,000	425	360	290
Large	GR-LD-90	90.0	Hot Cup 10 - 20oz	1,000	485	395	290

Greenus Sleeve



Greenus Sleeve

Made of 100% recycled paper board

- 100% recyclable
- 100% compostable
- Both embossing type and corrugated type possible



Items No.		Type	Common Cup size	Material	Box Dimention				Printing (Order made)
					cups /ctn	L	W	H	
Medium	GR-SL-M	Embossing	8oz	Recycled pulp 100%	1,000	360	260	190	Offset 1~4 color
Large	GR-SL-L		10 - 20oz		1,000	360	260	190	
Medium	GR-SL-M	Corrugating	8oz	Recycled pulp 100%	1,000	360	260	190	
Large	GR-SL-L		10 - 20oz		1,000	360	260	190	

Greenus Food Tray

Generic Food Tray

Made of 1side PLA coated cupstock board

- Natureworks LLC's Ingeo used
- 100% compostable



Environment-friendly Certification status

CERTIFICATE for Products

THIS IS TO CERTIFY that the following PRODUCTS have been found to comply with the specifications established in the American Society for Testing and Materials standard ASTM D6400 and/or D6868 in accordance with the terms and conditions of the Biodegradable Products Institute - Certification Program for Products Made of Compostable Plastics - Program Rules.

* Paper cups and bowls coated with a BPI approved resin (E0373306)

as further described in the application and related information submitted to the Biodegradable Products Institute by Hanchang Paper Co., Ltd. Corporation, the "Licensee", a corporation of Korea.

Specific products associated with these certifications can be found on the BPI Product Catalog (<http://www.bpi-certification.com/product-catalog>)

This Certificate authorizes the licensee to use the Certification Program Logo depicted below in relation to such Product, subject to all conditions and terms of the Program Rules and the License Agreement between the Biodegradable Products Institute and the Licensee.



Valid until July 31, 2020
Certificate #: 2019-01-29

CERTIFICATE for Products

THIS IS TO CERTIFY that the following PRODUCTS have been found to comply with the specifications established in the American Society for Testing and Materials standard ASTM D6400 and/or D6868 in accordance with the terms and conditions of the Biodegradable Products Institute - Certification Program for Products Made of Compostable Plastics - Program Rules.

* Paper Cup Sleeve (1243441)

as further described in the application and related information submitted to the Biodegradable Products Institute by Hanchang Paper Co., Ltd. Corporation, the "Licensee", a corporation of Korea.

Specific products associated with these certifications can be found on the BPI Product Catalog (<http://www.bpi-certification.com/product-catalog>)

This Certificate authorizes the licensee to use the Certification Program Logo depicted below in relation to such Product, subject to all conditions and terms of the Program Rules and the License Agreement between the Biodegradable Products Institute and the Licensee.



Valid until March 31, 2021
Certificate #: 2019-01-29

CERTIFICATE

Certificate holder: Hanchang Paper Co., Ltd. Youido-dong, Excon Venture Bldg.15-24 07237 Youngdeungpo-gu, Seoul REP. OF KOREA

Product: Products made of compostable materials

Type, Model: SEBES3 Paperboard Cups

Testing basis: DIN EN 13432:2002-12
Certificate scheme products made of compostable materials (2019-01)

Mark of conformity:



Registration No.: 27010

Valid until: 2020-07-31

Right of use: Mit diesem Zertifikat wird dem Träger ein Zulassungsrecht gemäß der entsprechenden Bestimmungen der Zulassungsregeln für die oben angeführten Konformitätszeichen in Verbindung mit der genannten Registrierungsnummer erteilt.

Weitere Angaben siehe Anhang.



2019-01-29
Rep. Of Korea, Seoul
Head of Certificate Body

DE CERTCO Institut für Zertifizierung mbH, Mittelstraße 11, 52229 Berlin, Deutschland

Technical Report No. 04.402.17.1481.01A
Dated 2019-01-29

Client: HanchangPaper Co., Ltd.

Address: Exconventure Bldg. 11F, 2, Youido-dong, Youngdeungpo-gu, Seoul, Korea

Site: Korea, Seo. Lon

Sample Description: Paper cup

Model No.: Customized Paper (PCF, PCC, Sugarcane 90% grade), Customized Paper (Sugarcane 90%)

Sample Produced Date: 2019-12-20

Examined Date: Final report (2019-01-29)

Test Requested:

1. For compostability: Compostability test in accordance with the German Field & Field (ASTM D6400 & D6868) and the BPI standard (BPI 19330204) **PASS**
2. For material properties: Tear strength, Bursting strength, Tensile strength, Modulus of elasticity, Elongation at break, Modulus of rupture, Modulus of elasticity, Modulus of rupture, Modulus of elasticity, Modulus of rupture, Modulus of elasticity, Modulus of rupture **PASS**
3. For material properties: Chlorophyll content, Chlorophyll content **PASS**
4. For material properties: Chlorophyll content, Chlorophyll content **PASS**
5. For material properties: Chlorophyll content, Chlorophyll content **PASS**
6. For material properties: Chlorophyll content, Chlorophyll content **PASS**
7. For material properties: Chlorophyll content, Chlorophyll content **PASS**

The certificate is issued in English.

2019-01-29
C MB
Control Manager

For the Certificate Committee
Dr. S. J. JUNG
President of the Committee

04-402101-4

Technical Report No. 04.402.17.1481.01B
Dated 2019-01-29

Client: HanchangPaper Co., Ltd.

Address: Exconventure Bldg. 11F, 2, Youido-dong, Youngdeungpo-gu, Seoul, Korea

Site: Korea, Seo. Lon

Sample Description: Paper cup

Model No.: Customized Paper (PCF, PCC, Sugarcane 90% grade), Customized Paper (Sugarcane 90%)

Country of origin: China

Exported to: U.S.A.

Sample Produced Date: 2019-12-21

Examined Date: Final report (2019-01-29)

Test Requested:

1. For compostability: Compostability test in accordance with the German Field & Field (ASTM D6400 & D6868) and the BPI standard (BPI 19330204) **PASS**
2. For material properties: Tear strength, Bursting strength, Tensile strength, Modulus of elasticity, Elongation at break, Modulus of rupture, Modulus of elasticity, Modulus of rupture, Modulus of elasticity, Modulus of rupture **PASS**
3. For material properties: Chlorophyll content, Chlorophyll content **PASS**
4. For material properties: Chlorophyll content, Chlorophyll content **PASS**
5. For material properties: Chlorophyll content, Chlorophyll content **PASS**
6. For material properties: Chlorophyll content, Chlorophyll content **PASS**
7. For material properties: Chlorophyll content, Chlorophyll content **PASS**

The certificate is issued in English.

2019-01-29
C MB
Control Manager

For the Certificate Committee
Dr. S. J. JUNG
President of the Committee

04-402101-4

CERTIFICATE FOR AWARDED AND USE OF THE 'OK COMPOST' CONFORMITY MARK

Reg. No. 16-100004

(Following the conformity 'C' 11-4761-A)
Issued by ABB-VINOCOTTE International

For the products described hereafter:

Product Name: Compostable Products
Product Type: Paper Cup
Product Code: SEBES3 Paperboard Cup
Product Description: Customized Paper (Sugarcane 90% grade), Customized Paper (Sugarcane 90%)
Product Dimensions: 48mm dia, 48mm dia, 48mm dia
Product Weight: 200mm diameter x 30mm height

Customer's examination method for the:

Hanchang Paper Co., Ltd.
Excon Venture Bldg. 15, 24,
Youido-dong, Youngdeungpo-gu,
Seoul, Korea

Criteria for certification:

- All the Paper with reference 'C' 11-4761-A
- Approved by ABB-VINOCOTTE International - Following Assessment for packaging materials for the 'OK COMPOST' conformity mark. The criteria are published on the website www.abb-vinocotte.com

Validity of the certificate:

From 04 Dec 2019 to 04 Dec 2021

Conclusions of the examination:

The products comply with the above-mentioned conformity criteria, as confirmed by the test report of the ABB-VINOCOTTE International.

Available certification system:

Type examination followed by inspection through verification tests on samples from the manufacturer's stock of the product.

The validity of the product is guaranteed by the procedure for issuing and use of the 'OK COMPOST' conformity mark. The only option to acquire during the 'OK COMPOST' mark.

The certificate is issued in English.

2019-01-29
C MB
Control Manager

For the Certificate Committee
Dr. S. J. JUNG
President of the Committee

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Customer's examination method for the:

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Youido-dong, Youngdeungpo-gu,
Seoul, Korea

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President of the Committee

04-402101-4

Hanchang Paper Co., Ltd.

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