

A modern glass-walled building with several trees in front of it, all under a blue-tinted sky. The building has multiple stories with large windows. The trees are of various sizes and are positioned in front of the building. The overall scene is a clean, architectural shot.

NISSHA

Biodegradable Jar Catalog for dry and oily fillings

November, 2021

Material and Color

Color: Natural / Black / White / Pink / Orange / Green / Purple / Red / Blue

Material: Premium / Universal

Premium

“Premium” offers unique wood chip appearance and haptic touch. It is ideal for sustainable products that aim for an exclusive feel.



Universal

“Universal” material is designed to fit to existing brand images with less and subtle wood texture.

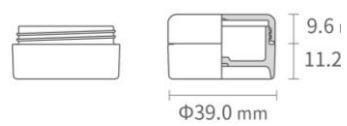


Standard size

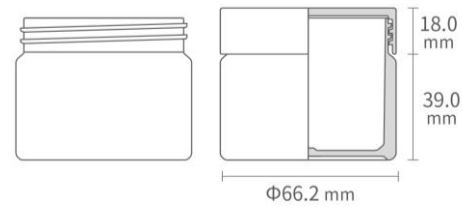
7 ml



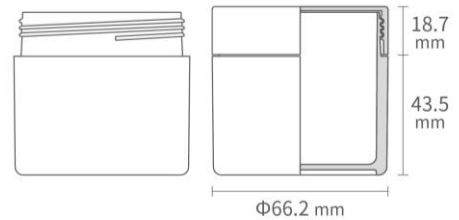
9 ml



133 ml

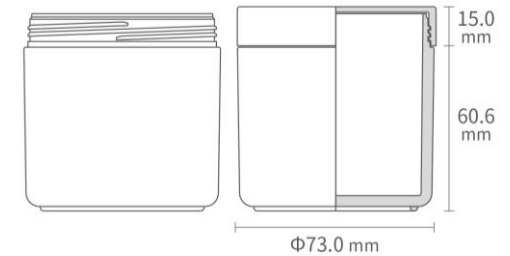


150 ml



*Deliveries start on Feb, 2022

200 ml



Technical data

	7 ml	9 ml	133 ml	150 ml	200 ml
Maximum Filling	7.0 ml	9.2 ml	133.3 ml	150 ml	200 ml
Exterior measurements	Φ31 x 25 mm	Φ39 x 22 mm	Φ66 x 58 mm	Φ66 x 62 mm	Φ74 x 76 mm
Interior measurements	Φ24 x 17 mm	Φ32 x 12 mm	Φ58 x 52 mm	Φ58 x 57 mm	Φ65 x 68 mm
Liner thickness	0.5 mm	TBC	0.8 mm	1.2 mm	1.2 mm
Gross weight	8 g	13 g	73 g	73 g	96 g
Cap printing	Screen printing φ26.2 mm Min line width 80 um	Screen printing φ30.7 mm Min line width 80 um	Screen printing φ61.5 mm Min line width 80 um	Pad printing φ45 mm (ready in mid 2022)	Pad printing φ45 mm (ready in mid 2022)
Printing logo	No adhesion and colour change under the test condition below 1. 40 degree C, 30% RH for 7 days 2. 100% Ethanol wipe with cloth 3. 20 degree C water immersion for 1 min			Under testing	Under testing
Manufacturing location	Japan	Japan	Japan	Germany (Deliveries expected in Feb 2022)	Germany
Recommended Storage condition	under 40 degree C, and in 30-40% RH				
Maximum Expected lifetime	up to 1 year under recommended storage condition *40 degree C, 30-40% RH accelerated environmental test for 130 days (minor discolouration, no dimensional change)				
Recommended temp for temporarily filling	70 degree C (158F)				
Recommended temperature for accelerated stability test	40 degree C (104F)				
Filling items	Dry food, Powder, Oily food, Balm(Oily cosmetics) pH : >4.5 *We recommend each customer to check with their unique filling items				
Non acceptable contents	Water based products *It may cause minor dimensional change of a jar. No risk of food safety issues.				

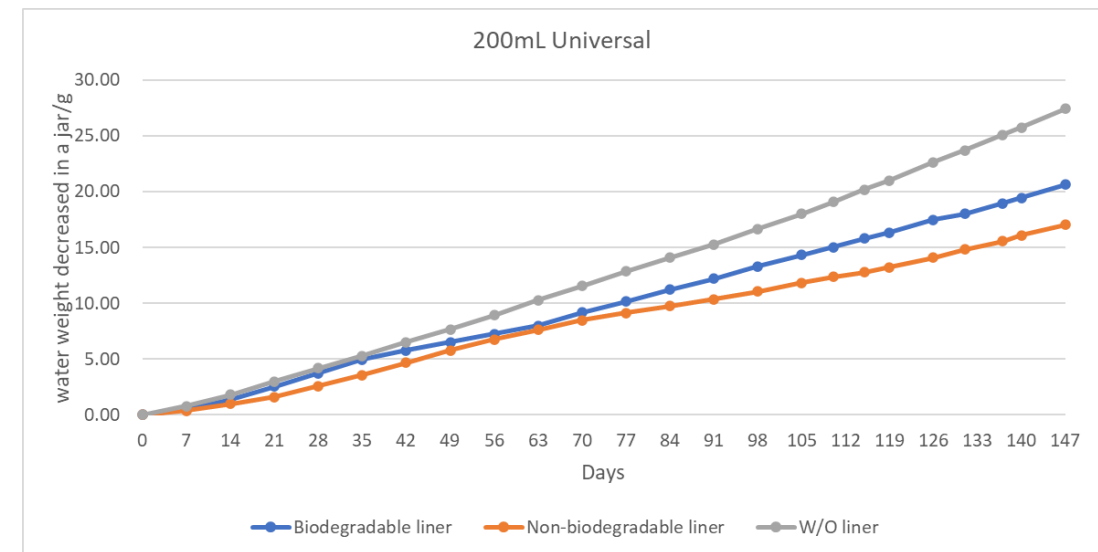
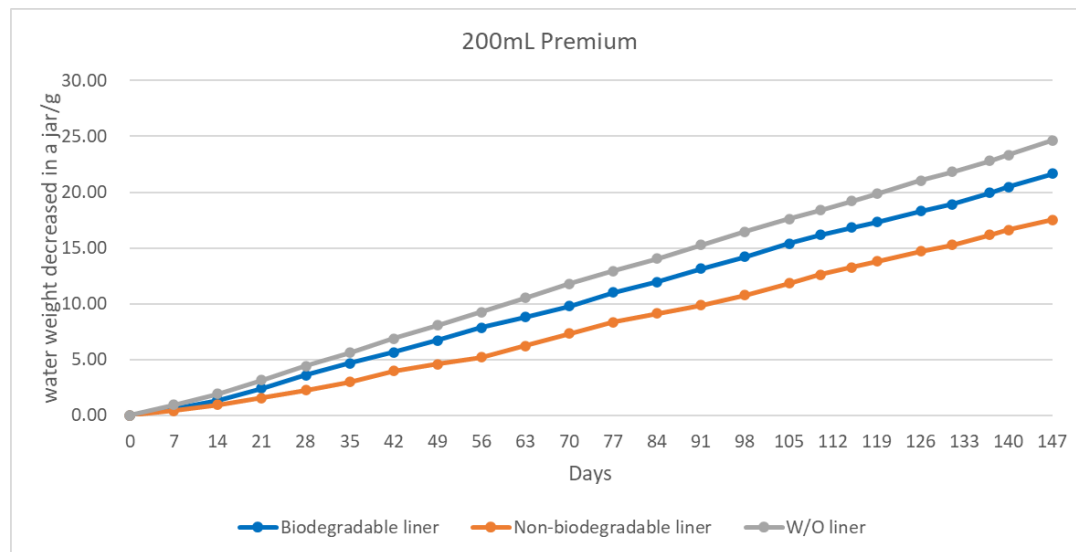
Technical data

	7 ml	9 ml	133 ml	150 ml	200 ml
Recommended closure torque (with recommended liner thickness)	> 30 [N · cm] < 60 [N · cm]	> 60 [N · cm] < 100 [N · cm]	> 130 [N · cm] < 324 [N · cm]	-	-
	*When closure torque exceeds the recommended torque, there is a risk that a lid may not be able opened by hand. *In case customers do not use liners, we recommend to check the appropriate torque at customers' site				
Drop impact test	-	-	No damage	To be tested	No damage
	A jar dropped from 80cm height onto a vinyl floor tile laid on concrete base from the top, side and bottom direction.				
Sterilization	In case sterilization is required, the products can be sprayed with a 70% ethanol solution. The products should be allowed to dry properly before they are filled				
Compostability	Industrial Compostability EN13432				
Compliant Directives	(EC) No.1935/2004 (EU) No.10/2011 *Tested for both Premium and Universal material. Natural, Black and White colour.				
Air tightness	-	-	tested	-	tested

Liner options

	7 ml	9 ml	133 ml	150 ml	200 ml
Recommended thickness of liners	0.5 mm	TBC	0.8 mm	1.2 mm	1.2 mm
Method of liner attachment	Glued	Glued	Glued	Without glue	Without glue
Available liner type	PE liner	PE liner	PE liner	PE liner Biodegradable liner	PE liner Biodegradable liner
Water barrier properties	*For supplement, the jar can be used without liner *If customer wants better moisture barrier property to jars, it is recommended to use either conventional PE liners or biodegradable liners				

- A closed 200ml jar with filled water is kept under 40 degree C controlled environment and its weight loss was measured periodically for 150 days.
 - 1. With non-biodegradable liner (PE liner) 2. With biodegradable liner 3. Without a liner



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