NAFLON™ PFA CHEMICAL WARES



NAFLON™ PFA CHEMICAL WARES are the containers made from PFA fluorocarbon resin and made by the blow molding method. They have the exceptional chemical resistance, and little elution of impurities for almost all kinds of fluids. What is more, they have higher mechanical strength compared with the glass wares and are unbreakable even if dropped.

Features

- Superior chemical resisance for the strong acids, alkalis and solvents or most corrosive fluids on the market.
- Little elution of impurities.
- High mechanical strength compared with the glass wares.
- High transparency for easily checking the level of the inner

fluids.

- Equipped with inside plugs that improve the sealing performance.
- Easliy-identifiable date marks punched at the bottom of each
- Wide variety of product lineups, ranging from 20mL to 5L.

Specifications

Lineup

Lineup	Capacity	Parts	
Narrow Mouth Bottles	50mL, 100mL, 250mL, 500mL, 1L, 2L, 3L, 5L	Main Body, Inside Plug, Cap	
Wide Mouth Bottles	20mL, 100mL, 250mL, 500mL, 1L	Main Body, Inside Plug, Cap	
Erlenmeyer Flasks	100mL, 200mL, 300mL	Main Body	

Service Range

We recommend that they be used at the ordinary temperatures and pressures. In case of the usage to be heated or pressurized, you are recommended to carry out the verification test on your own according to the application.

■ Erlenmeyer Flasks

Sizes

Narrow Mouth Bottles

Height (mm)	Outer Diameter of body (mm)
67	49
97	48
129	61
161	73
198	92
235	126
260	148
313	172
	(mm) 67 97 129 161 198 235 260

^{*}Por enquiries about capacitieslease contact us f, shapes and others.

Wide Mouth Bottles

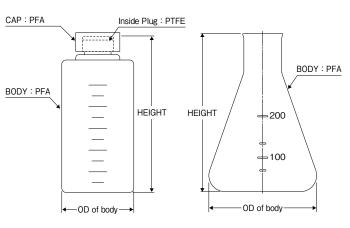
Size Capacity	Height (mm)	Outer Diameter of body (mm)
20mL	59	27
100mL	101	49
250mL	131	60
500mL	170	73
1L	205	93

Erlenmeyer Flasks

Size Capacity	Height (mm)	Outer Diameter of body (mm)	
100mL	98	64	
200mL	123	79	
300mL	130	88	

■ Narrow Mouth Bottles •

Wide Mouth Bottles





Features

Eluted Metals Measurement Results

Specimen (n=2) Size Narrow Mouth Bottles 500mL and 1L

Test Methods A specimen is filled with 3.6% hydrochloric acid with it's mouth wrapped by polyethylene. It is stored at an ordinary temperature for one day, the 14 kinds of eluted metals are measured (first time) by ICP-MS method (Test Machine: Agilent Technologies). After washing with ultrapure water, it is stored for an extra day in the same way, then the eluted metals are measured (Second time).

(unit: ppb)

3 Test Results

Specimen	First	time	Second time	
Element	500mL	1L	500mL	1L
Na (Sodium)	0.16	0.21	<0.01	<0.01
Mg (Magnesium)	<0.01	<0.01	<0.01	<0.01
Al (Aluminum)	<0.01	<0.01	<0.01	<0.01
K (Potassium)	0.11	0.07	<0.01	<0.01
Ca (Calcium)	0.41	0.43	0.02	<0.01
Ti (Titanium)	<0.04	<0.04	<0.04	<0.04
Cr (Chromium)	<0.01	<0.01	<0.01	<0.01
Mn (Manganese)	<0.01	<0.01	<0.01	<0.01
Fe (Iron)	0.04	0.02	<0.01	<0.01
Ni (Nickel)	<0.01	0.02	<0.01	<0.01
Cu (Copper)	<0.02	0.02	<0.01	<0.01
Zn (Zinc)	<0.02	0.03	<0.01	<0.01
Mo (Molybdenum)	<0.01	0.06	<0.01	<0.01
Pb (Palladium)	<0.01	<0.01	<0.01	<0.01
Detected amount of eluted metals	0.75	0.86	0.02	

Pressure cycle tests

- Specimen (n=1) Size Narrow Mouth Bottles 50mL, 100mL, 250mL, 500mL, 1L, 2L, 3L and 5L
- Test methods A PFA tube of 6 mm diameter with a fitting welded is connected into a specimen. After the cap is tightened by hand, the cycle of 100kPa x 10 sec ⇔ opening x 2 sec is made 1000 times. After the test, leakage and deformation are measured.
- 3 Test results Each specimen has no leakage and deformation, excluding 5L.

TOMBO is a registered trademark or trademark of NICHIAS Corporation.

*All brand names and product names are trademarks or registered trademarks of NICHIAS Corporation.

Cautions (

- The products included in this catalog are intended for common use, including those presented in the catalog. If you intend to use any of the products in a way that requires extremely high quality and reliability such that any possible defect may directly affect the safety of human lives, please make sure to consult with our company in advance and take necessary measures at
- your responsibility.

 Because the stated material values may vary according to actual usage environments or circumstances, please consider such figures as indications for reference.

 The content of the catalog explains the features of the products when they are used alone.
- When actually using the products, please start using them after testing them under the actual
- The content of the explanation of the products may be modified without any advance notice, and the production of the product may also be discontinued without advance notice. Please obtain the latest version of the catalog, and confirm the content thereof. The date of issuance of this catalog is printed in the upper left corner of this page.

 The standards, accreditation and provisions of laws included in the catalog may not conform
- with the latest version thereof.
- We strictly prohibit any acts of infringement upon our rights that are protected by the Copyright
 Act with regard to information included in the catalog, through the production of copies or imitations, misappropriation or unauthorized reprinting.
- Please be informed that, in the case where any problem involving a third party's industrial
 property right arises due to the use of any product included in the catalog, our company shall
 not be responsible for any problems other than the problems arising strictly due to reasons related to only such products
- Please be aware that our company will not bear any responsibility for the following damage
 - Damage arising due to natural disasters or accidents occurring for reasons that are not attributable to our company:

 - Damage arising due to remodeling, repairing or other acts by a third party;

 Damage arising due to the willful intent or negligence of the customer or the user, or due to the improper use or use under abnormal conditions of the products;
 - the improper use or use under abnormal conditions of the products;

 Damage arising due to the failure to carry out regular checkups and appropriate repairs, maintenance and part replacements, considering various conditions, such as the usage conditions, usage environment and usage period, etc., of the product;

 Indirect damage (including any operational damage, lost profits, opportunity losses, etc.) arising due to the use of or inability to use our company's product;

 Damage arising due to a situation which was unforeseeable under the technical standards at the time of the shipment of our company's product; or

 Damage arising due to reasons that are not attibutable to our company.

 - Damage arising due to reasons that are not attributable to our company

NICHIAS Corporation

https://www.nichias.co.jp/

International Marketing and Sales Group 6-1, Hatchobori 1-chome, Chuo-ku, Tokyo 104-8555, Japan

Phone: 81-3-4413-1132