#### TOMBO<sup>™</sup> No.9948

## NAFLON™ PFA CHEMICAL WARES



NAFLON<sup>™</sup> 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 ware.
- Wide variety of product lineups, ranging from 20mL to 5L.

#### Specifications

# LineupCapacityPartsNarrow Mouth Bottles50mL, 100mL, 250mL, 500mL, 1L, 2L, 3L, 5LMain Body, Inside Plug, CapWide Mouth Bottles20mL, 100mL, 250mL, 500mL, 1LMain Body, Inside Plug, CapErlenmeyer Flasks100mL, 200mL, 300mLMain 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.

#### Sizes

Narrow Mouth Bottles					
Size Capacity	Height (mm)	Outer Diameter of body (mm)			
50mL	67	49			
100mL	97	48			
250mL	129	61			
500mL	161	73			
1L	198	92			
2L	235	126			
3L	260	148			
5L	313	172			

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\*Por enquiries about capacitieslease contact us f, shapes and others.

## Wide Mouth Bottles

Capacity	(mm)	(mm)	
20mL	59	27	
100mL	101	49	
250mL	131	60	
500mL	170	73	
1L	205	93	

#### Erlenmeyer Flasks



#### Narrow Mouth Bottles • Wide Mouth Bottles

#### Erlenmeyer Flasks





#### E34 Issued in Jan 2020

#### **Features**

#### Eluted Metals Measurement Results

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

**2** 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  $\Leftrightarrow$  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.

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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

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