# TOMBOTM NO.9948 NAFLONTM 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 10L.

#### **Specifications**

#### Lineup

Lineup	Capacity	Parts
Narrow Mouth Bottles	50mL, 100mL, 250mL, 500mL, 1L, 2L, 3L, 5L, 10L	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)					
72	49					
102	48					
134	61					
171	73					
203	92					
240	126					
270	148					
325	172					
357	228					
	(mm) 72 102 134 171 203 240 270 325					

<sup>\*</sup>Por enquiries about capacitieslease contact us f, shapes and others.

#### **Wide Mouth Bottles**

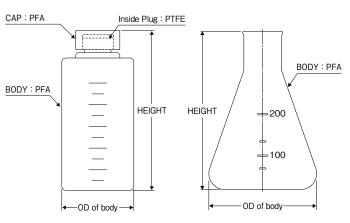
Size Capacity	Height (mm)	Outer Diameter of body (mm)
20mL	63	27
100mL	106	49
250mL	138	61
500mL	180	73
1L	212	93

#### **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

- 1 Specimen (n=2) ...... Size Narrow Mouth Bottles 500ml and 1L
- 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).

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 .....

- 1 Specimen (n=1) ...... Size Narrow Mouth Bottles 50ml, 100ml, 250ml, 500ml, 1L, 2L, 3L and 5L
- 2 **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.
- Test results ..... Each specimen has no leakage and deformation, excluding 5L.

  (For 5L, blisters are found at the bottom part of a bottle due to the cyclic pressure load)

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(unit: ppb)