

**TECHNICAL SPECIFICATIONS**

<b>Trade Name</b>	Graduated square bottles wide neck
<b>Use</b>	Space saving bottles for liquids and powders
<b>Material</b>	Body in Polyethylene (PE); cap in Polypropylene (PP) and undercap in Polyethylene (LDPE)
<b>Other Features</b>	Shoulder and cap with holes for safety seal or identification labels application. Permanent graduation printed in relief externally.

**DIMENSIONAL SPECIFICATIONS**

<b>Height with mounted cap</b>	52,00 mm
<b>External base diameter</b>	32,00 x 34,00 mm
<b>Internal mouth diameter</b>	18,00 mm
<b>General dimensional tolerance</b>	+/- 1,0 mm
<b>Bottle wall thickness</b>	0,35 +/- 0,20 mm
<b>Capacity</b>	25 ml
<b>Graduated scale</b>	5 ml each

**GENERAL FEATURES**

<b>CE Mark</b>	No
<b>Foodstuff suitability</b>	Yes, according to: EC Regulation 1935/2004 EC Regulation 10/2011 The Italian Ministerial Decree 21/03/1973 and subsequent amendments The Italian Presidential Decree 777/82 and subsequent update
<b>Seal granted by</b>	Quality of both cap and mouth thread, presence of the under cap
<b>Translucence</b>	Yes
<b>Temperature range of the bottle</b>	From -50°C a +80°C

**BOTTLE STERILIZATION****Quality Assurance**

Massimiliano Capitanio

**Technical Direction**

Guido Borona

Autoclavability + 121°C	No
Gas (Ethylene Oxide)	Yes, without cap and undercap
Dry Heat (+160°C)	No
Chemical (Formalin)	Yes
Irradiation	Yes
Microwave	Yes, without cap and undercap

#### CLEANING OPERATIONS

Slight contamination	Wash with neutral detergent (pH 7)
Consistent contamination	Wash with alkalin detergent (pH up to 12)

#### CHEMICAL RESISTANCE (BOTTLE)

Categories of substances	Reference	Concen. %	T. 20° C	T. 40° C	T. 60° C
Inorganic Acid	Sulphuric acid	98	B	B	B
Organic Acid	Benzoic acid	100	A	A	A
Alcohol	Ethanol	100	A	B	B
Aldehydes	Acetaldeyde	100	B	C	-
Inorganic alkali	Isodium hydroxide	50	C	-	-
Organic alkali	Aniline	100	A	B	C
Ketone	Acetone	100	B	C	-
Esther	Ethyl acetate	100	B	C	-
Hydrocarbons, halogenated	Dichloroethylene	100	C	-	-
Hydrocarbons, aromatic	Benzene	100	B	C	-
Hydrocarbons, linear	Hexane	100	C	-	-
Supersolvent	Tetrahydrofuran	100	B	B	C

**Legenda** (not applicable if neglected):

- **A: fair resistance;** exposure (30 days) to the chemical does not cause any damage.
- **B: sufficient resistance;** exposure causes damage of poor importance, which sometimes is only temporary.
- **C: poor resistance;** exposure to chemical is not allowed, or causes immediate permanent damages.

Results of testing with reference materials are to be considered as indication: in case of specific use it is recommended to carry out preliminary testing.

Information about resistance of plastic materials to temperatures, steriization and washing treatments are based on bulletins issued by the Producers of raw materials , on literature data and on the experiece gained in using the

**Quality Assurance**

Massimiliano Capitanio

**Technical Direction**

Guido Borona

products

**PACKAGING**

Quantity for each bag	100 pcs with mounted cap and undertap
Quantity in each box	5 x 100 = 500 pcs with mounted cap and undercap

**Quality Assurance**

Massimiliano Capitano

**Technical Direction**

Guido Borona

**DOMINIQUE DUTSHER SAS**