

**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>	70,00 mm
<b>External base diameter</b>	38,00 x 38,00 mm
<b>Internal mouth diameter</b>	24,00 mm
<b>General dimensional tolerance</b>	+/- 1,0 mm
<b>Bottle wall thickness</b>	0,35 +/- 0,20 mm
<b>Capacity</b>	50 ml
<b>Graduated scale</b>	10 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 RESISTANCES (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	Acetaldehyde	100	B	C	-
Inorganic alkali	Sodium 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.

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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 experience gained in using the products

**PACKAGING**

Quantity for each bag	100 pcs with mounted cap and undertap
Quantity in each box	4 x 100 = 400 pcs with mounted cap and undercap

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**DOMINIQUE DUTSHER SAS**