

TECHNICAL FEATURES

| | |
|----------------|--|
| Trade Name | Graduated narrow neck bottles – without caps |
| Use | An ideal bottle for water and oils |
| Material | Polyethylene HDPE |
| Other features | There are no shoulders to restrict the flow |

DIMENSIONAL FEATURES

| | |
|-------------------------------|--------------------|
| Height | mm. 106,00 |
| Base diameter | mm. 48,00 |
| Mouth diameter | mm. 13 (DIN GL 18) |
| General dimensional tolerance | mm. +/- 1,00 |
| Wall thickness (bottle) | mm. 0,60 +/- 0,2 |
| Capacity | ml. 100 |

**GENERAL FEATURES**

| | |
|-----------------------|--|
| CE Mark | No |
| Foodstuff suitability | Yes |
| Neck and thread | Conformity to DIN 13316 and 168 |
| Graduation | Graduated. Can be used as rough measures |
| Sealing | Can be secured using shoulder and cap tag to avoid sample contamination in transit |

STERILIZATION OF THE BOTTLE

| | |
|------------------------|-----|
| Autoclavable at +121°C | No |
| Gas (Ethylene Oxide) | Yes |
| Dry at +160°C | No |
| Chemical (Formalin) | Yes |
| Radiations | Yes |
| Microwaves | Yes |

Quality Assurance
Massimiliano Capitanio**Technical Direction**
Guido Borona

CLEANING OPERATIONS

| | |
|-----------------------------|--|
| Slight contamination | Wash with chemically neutral (pH7) cleaning agents |
| Heavy contamination | Wash with alkaline (pH up to 12) cleaning agent |

CHEMICAL RESISTANCES

| Categories of substances | Reference | Concent. % | 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 | 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, sterilization 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

| | |
|------------|---------|
| Bag | 100 pcs |
|------------|---------|

Quality Assurance
Massimiliano Capitanio

Technical Direction
Guido Borona

DOMINIQUE DUTSHER SAS