

1 BOTTLE MATERIAL

CLEAR GLASS

Clear soda lime glass has an excellent corrosion resistance to most chemicals. Its thickness enables a slight mechanical shock resistance. It has only medium thermal properties given by a 120 °C (250 °F) maximum temperature and a 40 °C (100 °F) thermal shock resistance.

AMBER GLASS

Amber soda lime glass has an excellent corrosion resistance to most chemicals. Its thickness enables a slight mechanical shock resistance. It has only medium thermal properties given by a 120 °C (250 °F) maximum temperature and a 40 °C (100 °F) thermal shock resistance. This glass has the property of totally protecting the bottle content from ultraviolet rays and is therefore ideal for light-sensitive compounds.

BOROSILICATE GLASS

Clear borosilicate glass is highly resistant to water, neutral and acid solutions, concentrated acids and their mixtures, chlorine, bromine, iodine and organic materials. It is considered to be an all-round industrial glass in all fields of applications where maximal 400 °C (750 °F) thermal (shock) resistance is required. The temperature resistance gives a maximum temperature of 500 °C (900 °F).

POLYETHYLENE

High density polyethylene is the most versatile and widely used plastic. It is translucent to opaque, robust enough to be virtually unbreakable, at the same time slightly flexible. Polyethylene is resistant to a great many chemicals at room temperature (strong oxidizing agents being the main exception). The temperature resistance gives a maximum temperature of 110 °C (230 °F) continuously and 120 °C (250 °F) for short periods.

POLYPROPYLENE

Polypropylene is a translucent material, which replaces polyethylene when higher thermal resistance for sterilizing and autoclaving is required given a maximal temperature of 135 °C (275 °F) and a 120 °C (250 °F) thermal shock resistance. It is particularly frequently used for sterilization under clinical or similar circumstances. Although it has excellent mechanical properties, the bottles of this material are breakable.

SS 316

Steel (AISI SS 316) bottles have the highest thermal and mechanical resistance, they are unbreakable. The chemical resistance is high or very good for most chemicals. The major disadvantage is the non-visibility of the contents (a DOPAK® fixed volume sampler should be used with SS316 bottles). Other materials such as Monel, Hastelloy etc. are available.

COATED GLASS

Glass bottles can be coated with plastic material to provide a safety feature against breakage. In case the container is dropped, the coating makes it less likely for the bottle to break. If eventually it does break, the contents are seldom spilled because contents and glass fragments are caught inside the protective coating. All bottle sizes, except for the 2 cc, can be supplied with a plastic coating.

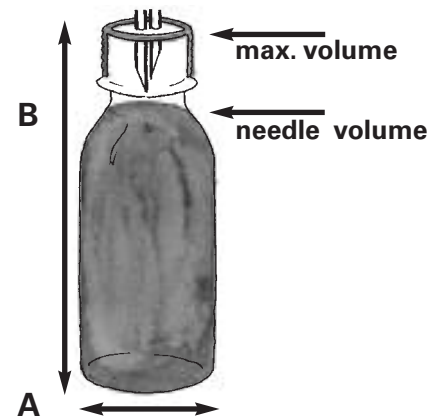
2 SPECIFICATIONS

Material	Part No.	Availability	Volume [cc]			Dimensions [mm]		Capsize Nom.	Max. temperature	
			Nom.	Max.	Needle	A	B		[°C]	[°F]
Clear glass	1114000	●/▲	1	2	1	12	39	12	120	250
	1115400*	●/▲	2	2	1	12	39	12	120	250
	1115000	●/▲	60	64	60	39	93	25	120	250
	1110100	●/▲	100	114	111	52	97	28	120	250
	1114300	●/▲	300	315	309	65	151	28	120	250
	1114400	●	500	509	502	77	178	28	120	250
	1114700	●	1000	1050	1040	101	207	28	120	250
	1113900	●	300	333	328	67	167	36	120	250
	1116300	●	500	603	592	78	206	36	120	250
	1113700	●	1000	1134	1126	97	254	36	120	250
Amber glass	1117300	●	5	5	5	20	48	18	120	250
	1117400	●/▲	60	64	60	39	93	28	120	250
	1110900	●/▲	100	114	111	52	97	28	120	250
	2011865	●/▲	300	315	309	65	151	28	120	250
	1111100	●/▲	500	509	502	77	178	28	120	250
	1111200	●/▲	1000	1050	1040	101	207	28	120	250
Borosilicate glass	1114500	●/▲	50	69	65	46	89	32	500	900
	1111300	●/▲	100	131	119	56	100	45	500	900
	1111400	●/▲	250	298	287	70	138	45	500	900
	1111500	●/▲	500	608	597	86	181	45	500	900
	1111600	●/▲	1000	1135	1125	101	225	45	500	900
Boston rnd clear	1950000	▲	2 oz	2 1/8	1 15/16	39	94	20	120	250
	1950100	▲	4 oz	4 1/4	4 1/16	48	112	22	120	250
	9669000	▲	8 oz	8 1/2	8 1/8	60	136	24	120	250
	9686000	▲	16 oz	16 31/32	16 1/4	75	168	28	120	250
	9687000	▲	32 oz	33 59/64	32 5/8	94	206	33	120	250
Boston rnd amber	9688000	▲	8 oz	8 1/2	8 1/8	60	136	24	120	250
	9716000	▲	16 oz	16 31/32	16 1/4	75	168	28	120	250
	9713000	▲	32 oz	33 59/64	32 5/8	94	206	33	120	250
French square	1950200	▲	2 oz	2 1/8	1 15/16	39	87	28	120	250
	1950300	▲	4 oz	4 1/4	4 1/16	45	114	33	120	250
Polyethylene	1117500	●	100	106	93	50	91	28	120	250
	2001154	●	150	170	165	50	118	28	120	250
	1111900	▲	150	170	165	50	109	28	120	250
	1112000	●	250	281	270	6	143	28	120	250
	1118300	●	500	565	540	75	165	28	120	250
	1112100	▲	500	565	540	75	161	28	120	250
	1118100	●	1000	1045	1030	90	202	28	120	250
	9111700	▲	60	64	60	39	77	33	120	250
Polypropylene	2001153	●	150	170	165	50	118	28	135	275
	1112500	▲	150	170	165	50	109	28	135	275
	1112600	●/▲	250	281	270	60	143	28	135	275
	1112700	●/▲	500	565	540	75	161	28	135	275
	1118200	●	1000	1045	1030	90	202	28	135	275
	2000353	●	60	64	60	39	80	33	135	275
9112400	▲	60	64	60	39	77	33	135	275	

- Available in Europe, Africa, Asia and Australia.
- ▲ Available in North- and South America.

- All above mentioned bottles can be supplied with a plastic-coating except 2 cc bottles.
- We can supply SS bottles in all sizes.
- Needle volume is determined using a 1.35 mm process needle.
- *) bottle supplied with crimp cap.

For any other information required, consult the Sales Department at Bergschenhoek or Houston or your local representative.



Your local representative:

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