



**Expertise in plastics\_**

*Standard packaging*



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# NARROW NECK BOTTLE SERIES 301 LDPE

- Flexible
- Squeezable
- Good shape-retaining properties
- Leakproof

The packaging concept of Kautex for narrow, medium and wide neck laboratory bottles consists of consumer-optimized order units.

Closures and bottles are packed together as one unit and can be ordered in an uncomplicated manner with one article number. This results in the following advantages for both dealers and end users.

- One article number for bottle and closure
- Better and clearer handling of the ordered goods
- Dust-free and undamaged packaging
- Easier and quicker to commission bottles and closures
- The end-user receives original packed merchandise

### Packaging concept:

up to 100 ml: Closures are packed in a polybag which is included in the bottles polybag.

from 200 ml: Bottles are stretched in foil, corresponding number of closures in a separate polybag in the box.

from 2,000 ml: Bottles packed loosely in the box with screwed-on closures.

- Suitable for food.
- Three types of closures for different applications.
- Ideal for liquids.
- Handy shape.

"Recycling symbol" in accordance with Directive 97/129/EC and 94/62/EC.

Round | Natural colour | With closure



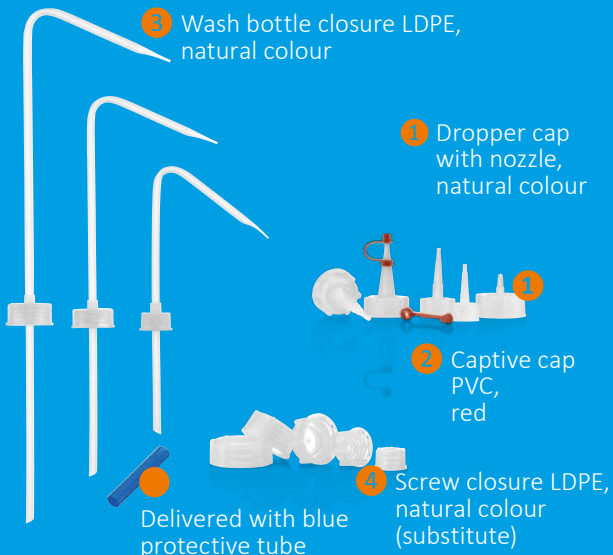
Nominal capacity ml	A mm	B mm	C mm	D mm	Mould no.	No. of pcs. per case*	No. of pcs. per packg.	Order no.
10	26	9.2	14	46.5	301-10	3,200	100	2000770500
20	31.5	9.2	14	56.5	301-20	1,800	100	2000770501
30	33.5	9.2	14	68.5	301-30	1,400	100	2000770502
50	37.5	12.9	18	86	301-50	850	50	2000770503
100	47	12.9	18	105	301-100	480	20	2000770504
200	57.5	12.9	18	133	301-200	300	10	2000770505
250	61.3	19	25	140	301-250	210	10	2000770506
500	75	19	25	177	301-500	120	10	2000770507
1,000	97.5	21.5	28	223.5	301-1000	56	4	2000770508
2,000	120	21.5	28	264	301-2000	30	-	2000770509
3,000	138	23.8	32	300	301-3000	20	-	2000770510
5,000	162	30.8	40	355	301-5000	10	-	2000070511

A = Diameter body / B = Neck i.d. / C = Cap size o.d. / D = Height without closure  
\*Packaging unit/minimum ordering quantity

### Closures for narrow neck bottle series 301 and series 302 LDPE

for bottle nom. cap. ml	C mm	① Order no.	② Order no.	③ Order no.	④ Order no.
10/20/30	14	2000072102	2000073350	-	2000090603
50	18	2000072101	2000073350	-	2000090604
100	18	2000072101	2000073350	2000095991	2000090604
200	18	2000072101	2000073350	2000085992	2000090604
250	25	2000072100	2000073350	2000090618	2000090605
500	25	2000072100	2000073350	2000095993	2000090605
1,000	28	2000072103	2000073350	2000090619	2000090606
2,000	28	2000072103	2000073350	2000095994	2000090606
3,000	32	-	-	-	2000090607

Packed in PE bag of 100 pcs.



# WIDE NECK BOTTLE SERIES 303 LDPE

Wide neck  
Easy to fill  
Easy to clean  
Leakproof

Round | Natural colour | With closure



Nominal capacity ml	A mm	B mm	C mm	D mm	Mould no.	No. of pcs. per case*	No. of pcs. per packg.**	Order no.
50	39	23.8	32	76	303-50	650	50	2000770528
100	48	23.8	32	93.5	303-100	480	20	2000770529
200	59	30.8	40	114	303-200	300	10	2000770530
250	64	30.8	40	120	303-250	260	10	2000770531
300	67.5	30.8	40	128	303-300	180	10	2000770532
500	77	39.2	50	154	303-500	130	10	2000770533
750	88	39.2	50	173	303-750	90	5	2000770534
1,000	95	50	65	205	303-1000	56	4	2000770535
1,500	108	50	65	226	303-1500	40	4	2000770536
2,000	120	50	65	247	303-2000	33	-	2000770537

## Screw closure LDPE (substitute)

For bottle nominal capacity ml	C mm	Order no.
50 100	32	2000090607
200 250 300	40	2000090608
500 750	50	2000090609
1,000 1,500 2,000	65	2000090610

Packed in PE bag of 100 pcs.

A = Diameter body / B = Neck i.d. / C = Cap size o.d. / D = Height without closure  
\*Packaging unit/minimum ordering quantity \*\*Subpackaging = quantity packed in extra foil  
(for further information on subpackaging see page 4)



Suitable for food.



Ideal for liquids, pastes and granulates.



"Recycling symbol" in accordance with Directive 97/129/EC and 94/62/EC.





# WIDE NECK BOTTLE SERIES 303 PP

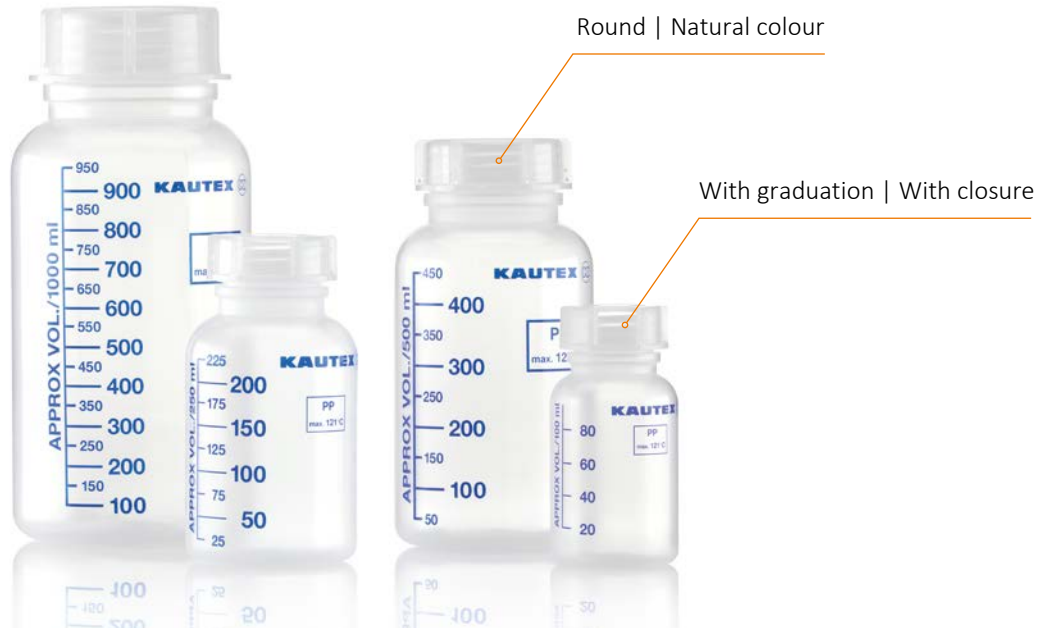
Autoclavable up to 121 °C

Hot filled products

Pastes

Granulates

Leakproof



Nominal capacity ml	A mm	B mm	C mm	D mm	Mould no.	No. of pcs. per case*	No. of pcs. per packg.**	Order no.
100	48.5	24.3	32	94	303-100	480	20	2000783856
250	64.5	30.9	40	121	303-250	260	10	2000783859
500	77.5	39.9	50	155	303-500	130	10	2000783852
1,000	96	50.8	65	205	303-1000	56	4	2000783855


### Screw closure PP (substitute)

For bottle nominal capacity ml	C mm	Order no.
100	32	2000093789
250	40	2000093792
500	50	2000093791
1.000	65	2000093790

A = Diameter body / B = Neck i.d. / C = Cap size o.d. / D = Height without closure

\*Packaging unit/minimum ordering quantity \*\*Subpackaging = quantity packed in extra foil (for further information on subpackaging see page 4)

Packed in PE bag of 100 pcs.

 Suitable for food.



“Recycling symbol” in accordance with Directive 97/129/EC and 94/62/EC.

Note: Before autoclaving screw off the closure and place it upside down on the bottle.



# WIDE NECK WASH BOTTLE SERIES 303 LDPE

Printed-on hazard symbols

Abrasion-resistant printing

Sliding delivery tube

Round | Natural colour

Printed-on hazard symbols

Substances of content in  
German, English, French



Nominal capacity ml	A mm	B mm	C mm	D mm	Mould no.	No. of pcs. per case*	No. of pcs. per packg.**	Order no.
<b>ACETONE, ACETONE, with included wash bottle closure LDPE, cap red</b>								
250	64	30.8	40	120	303-250	150	10	2000770020
500	77	39.2	50	154	303-500	100	10	2000770025
<b>ETHANOL, with included wash bottle closure LDPE, cap green</b>								
250	64	30.8	40	120	303-250	150	10	2000770016
500	77	39.2	50	154	303-500	100	10	2000770021
<b>ISOPROPANOL, 2-PROPANOL, with included wash bottle closure LDPE, cap yellow</b>								
250	64	30.8	40	120	303-250	150	10	2000770017
500	77	39.2	50	154	303-500	100	10	2000770022
<b>METHANOL, with included wash bottle closure LDPE, cap orange</b>								
250	64	30.8	40	120	303-250	150	10	2000770018
500	77	39.2	50	154	303-500	100	10	2000770023
<b>DISTILLED WATER, EAU DESTILLE, with included wash bottle closure LDPE, cap blue</b>								
250	64	30.8	40	120	303-250	150	10	2000770019
500	77	39.2	50	154	303-500	100	10	2000770024

A = Diameter body / B = Neck i.d. / C = Cap size o.d. / D = Height without closure

\*Packaging unit/minimum ordering quantity \*\*Subpackaging = quantity packed in extra foil (for further information on subpackaging see page 4)

Suitable for the declared liquid, please contact us for further information on food suitability.

Completely emptied by sliding delivery tube, even when inverted.



Tube natural colour

Delivered with blue protective tube

## Safety:

If the delivery tube is raised above the liquid surface then temperature variations will not cause liquid to escape.

Tip with safety tubing.



"Recycling symbol" in accordance with Directive 97/129/EC and 94/62/EC.

Printed-on hazard symbols and substances of content, with memo field

## WIDE NECK BOTTLE SERIES 303 LDPE

*For light sensitive materials*

*Protection against UV-light-transmission*

*Wide neck easy to fill*

*Leakproof*

Round | Brown colour | With closure



Nominal capacity ml	A mm	B mm	C mm	D mm	Mould no.	No. of pcs. per case*	No. of pcs. per packg.**	Order no.
50	39	23.8	32	76	303-50	650	50	2000784583
100	48	23.8	32	93,5	303-100	480	20	2000784584
250	64	30.8	40	120	303-250	260	10	2000784585
500	77	39.2	50	154	303-500	130	10	2000784586
1,000	95	50	65	205	303-1000	56	4	2000784587

A = Diameter body / B = Neck i.d. / C = Cap size o.d. / D = Height without closure

\*Packaging unit/minimum ordering quantity \*\*Subpackaging = quantity packed in extra foil (for further information on subpackaging see page 4)

### Screw closure LDPE, brown (substitute)

For bottle nominal capacity ml	C mm	Order no.
50	32	2000794579
100		
250	40	2000094578
500	50	2000794577
1,000	65	2000094576

Packed in PE bag of 100 pcs.



Suitable for food.



Ideal for high-viscosity media, powders, granulates and pastes.



Leakproof.



The wide neck opening means that the bottles are easy to fill and clean.



“Recycling symbol” in accordance with Directive 97/129/EC and 94/62/EC.





# MEDIUM NECK BOTTLE SERIES 307 HDPE

*Embossed contents scale*

*Easy to fill*

*Easy to clean*

*Leakproof*

Round | Natural colour | With closure



With graduation

Nominal capacity ml	A mm	B mm	C mm	D mm	Mould no.	No. of pcs. per case*	No. of pcs. per packg.**	Order no.
100	46	19	25	99.5	307-100	480	20	2000770066
250	61	24	28	129.5	307-250	250	10	2000770067
500	77	30.8	40	161	307-500	140	10	2000770070
1,000	97	39.2	50	203	307-1000	64	4	2000770073


Screw closure PP, natural colour (substitute)		
For bottle nominal capacity ml	C mm	Order no.
100	25	2000794398
250	28	2000794542
500	40	2000093792
1,000	50	2000093791


A = Diameter body / B = Neck i.d. / C = Cap size o.d. / D = Height without closure


\*Packaging unit/minimum ordering quantity \*\*Subpackaging = quantity packed in extra foil (for further information on subpackaging see page 4)


Packed in PE bag of 100 pcs.

## Please contact us for further information on food suitability.

 Multi-purpose bottles for laboratories and industry.

 The neck opening means that the bottles are easy to fill and clean.

 PP screw closure.

 "Recycling symbol" in accordance with Directive 97/129/EC and 94/62/EC.



# HIGH SHOULDER BOTTLE SERIES 302 LDPE

High narrow shape  
Easy handling  
Leakproof



Nominal capacity ml	A mm	B mm	C mm	D mm	Mould no.	No. of pcs. per case*	No. of pcs. per packg.**	Order no.
50	36.5	12.9	18	82	302-50	900	150	2000070512
100	44.5	12.9	18	98.5	302-100	420	70	2000070513
500	75.5	19	25	160	302-500	124	-	2000070515
1,000	95	21.5	28	196	302-1000	72	-	2000070517

A = Diameter body / B = Neck i.d. / C = Cap size o.d. / D = Height without closure

\*Packaging unit/minimum ordering quantity \*\*Subpackaging = quantity packed in extra foil (for further information on subpackaging see page 4)

Nominal capacity ml	C mm	① Order no.	② Order no.	③ Order no.	④ Order no.
50	18	2000072101	2000073350	-	2000090604
100	18	2000072101	2000073350	2000095991	2000090604
500	25	2000072100	2000073350	2000095993	2000090605
1,000	28	2000072103	2000073350	2000090619	2000090606



Suitable for food.



Three types of closures for different applications.



Ideal for liquids.



Handy shape.



"Recycling symbol" in accordance with Directive 97/129/EC and 94/62/EC.

Packed in PE bag of 100 pcs.



## ROUND BOTTLE SERIES 308 HDPE

*Stable and handy shape  
Hinged lid closure  
For single-handed use*



Nominal capacity ml	A mm	B mm	C mm	D mm	Mould no.	No. of pcs. per case*	No. of pcs. per packg.**	Order no.
50	32	17	22	86	308-239	900	150	2000076399
100	41	17	22	108.5	308-142	792	-	2000073084
250	56	17	22	135.5	308-143	324	-	2000073085
500	70	19.4	25	173	308-144	148	-	2000073086
1,000	89	19.4	25	211.5	308-145	72	-	2000073087

Hinged lid closure PP, white		
For bottle nominal capacity ml	C mm	Order no.
50 100 250	22	2000073182
500 1,000	25	2000073089

A = Diameter body / B = Neck i.d. / C = Cap size o.d. / D = Height without closure

\*Packaging unit/minimum ordering quantity

\*\*Subpackaging = quantity packed in extra cardboard box



Suitable for food.



Ideal for cosmetic products, e.g. emulsions, shampoos, shower gels, creams and as a refill packaging.



"Recycling symbol" in accordance with Directive 97/129/EC and 94/62/EC.



# ROUND BOTTLE SERIES 321 "VARIOPACK" DUAL COEX

Special packaging  
Barrier layer  
Leakproof


With PA barrier layer | White



Nominal capacity ml	A mm	B mm	C mm	D mm	Weight g	Mould no.	No. of pcs. per case	Order no.
250	62.5	42	50	131.3	30	321 243 B	252	2000086710
500	69	42	50	186.5	45	321 242 B	152	2000086711
1,000	88.5	42	50	234	110	321 217 C	80	2000086712

A = Diameter body / B = Neck i.d. / C = Cap size o.d. / D = Height without closure  
\*Packaging unit/minimum ordering quantity

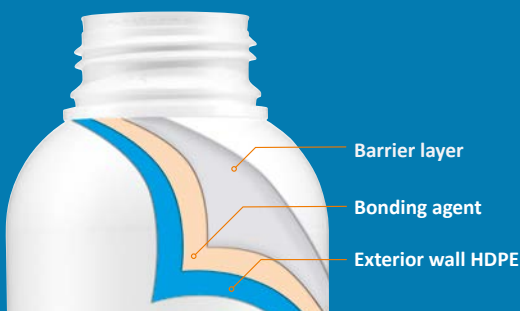
 Not suitable for food.

 "Recycling symbol" in accordance with Directive 97/129/EC and 94/62/EC.

High-quality packaging with barrier layer of polyamide for highly volatile or intense smelling media with high permeation rates.

Closure HDPE, white, with EPE PA wad and tamper evident ring

For bottle nominal capacity ml	C mm	No. of pcs. per case*	Order no.
250 to 1,000	50	800	2000086734



# DROPPING BOTTLE SERIES 302 HDPE

*Dropping tip closure*  
*Separate screw closure*  
*Resealable*



Nominal capacity ml	A mm	B mm	C mm	D mm	Mould no.	No. of pcs. per case*	No. of pcs. per pack.**	Order no.
10	24	12.7	18	50	302-21A	4,000	100	2000099529
25	31.3	12.7	18	64.5	302-16E	2,000	100	2000092676
50	40	12.7	18	77	302-12D	1,100	100	2000081015

Combination closure LDPE/PP, with screw-on dropping tip

For bottle nominal capacity ml	C mm	Order no.	No. of pcs. per case
10/25/50	18	2000083700	3,000

A = Diameter body / B = Neck i.d. / C = Cap size o.d. / D = Height without closure  
\*Packaging unit/minimum ordering quantity \*\*Subpackaging = quantity packed in extra foil



Not suitable for food.



Stable and handy shape.



Suitable for adhesives and many other products.



"Recycling symbol" in accordance with Directive 97/129/EC and 94/62/EC.





# NARROW NECK BOTTLE SERIES 310 HDPE

Square cross-section  
Recessed labelling field  
Leakproof



Nominal capacity ml	A mm	B mm	C mm	D mm	Mould no.	No. of pcs. per case*	Order no. natural colour	Order no. white
100	45 x 45	17	32	108	310-53 A	544	2000083970	2000084000
250	60 x 60	17	32	136	310-54 A	247	2000083971	2000083994
500	74 x 74	17	32	170	310-55 A	122	2000083972	2000083991
1,000	85 x 85	17	32	221	310-56 A	72	2000083973	2000083992
2,500	122 x 122	28	45	272	310-57 E	27	2000071149	2000082553

The bottles are suitable for food, please contact us for further information on food suitability of the closures.

Five different types of closures available.

Ideal for liquids.

"Recycling symbol" in accordance with Directive 97/129/EC and 94/62/EC.

A = Diameter body / B = Neck i.d. / C = Cap size o.d. / D = Height without closure  
\*Packaging unit/minimum ordering quantity

### Screw closures PP

For bottle nominal capacity ml	C mm	1 Order no.	2 Order no.	3 Order no.	4 Order no.	5 Order no.
100 to 1,000	32	2000084006	2000083951	2000084200	2000084201	2000085590
2,500	45	-	2000076305	-	-	-

blue, with tamper evident ring and conical seal

red, with tamper evident ring and PE-foam wad

white/blue, push and turn closure, with tamper evident ring and conical seal

white/red, push and turn closure, with tamper evident ring, conical seal and degassing membrane

Degassing closure, red, with perforated PE-foam wad and tamper evident ring



# NARROW NECK BOTTLE "SAFEGRIP" SERIES 310 HDPE

*Square shape  
Safe and comfortable handling  
Leakproof*



Nominal capacity ml	A mm	B mm	C mm	D mm	Mould no.	No. of pcs. per case*	Order no. natural colour
50	40 x 40	18.6	32	79	310-143	850	2000085937
100	46 x 46	18.6	32	108	310-144	450	2000085938
250	60 x 60	18.6	32	136	310-145	234	2000085939
500	75 x 75	18.6	32	169	310-146	150	2000085940

A = Diameter body / B = Neck i.d. / C = Cap size o.d. / D = Height without closure  
\*Packaging unit/minimum ordering quantity

Screw closure PP, blue, with PTFE liner and tamper evident ring

For bottle nominal capacity ml	C mm	Order no.
50 to 500	32	2000085941



The bottles are suitable for food. Please contact us for further information on food suitability of the closures.



The neck of this bottle series has been adapted to the standard glass closure GL 32.



"Recycling symbol" in accordance with Directive 97/129/EC and 94/62/EC.



## UN NARROW NECK BOTTLE SERIES 308/310 HDPE

UN approval

For hazardous liquids

Three different types of closures

GL 45 neck

Leakproof





**UN approved for liquids**


UN Narrow neck bottle series 308/310 HDPE, natural colour and black


Nominal capacity ml	A mm	B mm	C mm	D mm	Weight g	Mould no.	No. of pcs. per case*	UN approval	Order no. natural colour	Order no. black
500	77 x 77	28.7	45	176,5	52	308-257	120	UN 1H1/X1.9/250	2000084464	2000770096
1,000	96 x 96	28.7	45	211,8	88	310-135	64	UN 3H1/X1.9/250	2000084152	2000770097
2,500	127 x 127	28.7	45	282	167	310-136	26	UN 3H1/X1.9/250	2000084153	2000084486

A = Diameter body / B = Neck i.d. / C = Cap size o.d. / D = Height without closure \*Packaging unit/minimum ordering quantity

 The bottles are suitable for food, please contact us for further information on food suitability of the closures.

 Narrow neck bottles with UN approval for liquids.

 Recessed labelling field with bottle sizes 1,000 and 2,500 ml.

 "Recycling symbol" in accordance with Directive 97/129/EC and 94/62/EC.

Bottle includes a dust cap to avoid contamination before filling.

Dispose of dust cap prior to capping.



## UN NARROW NECK BOTTLE SERIES 310 "SAFEGRIP"

Natural colour | Black



Please note:  
The UN approvals can be requested here:  
[Sales.STVP@kautex.com](mailto:Sales.STVP@kautex.com).  
The approvals are only valid with the closures offered on this page.

UN approved for liquids

Narrow neck bottle series 310 "SafeGrip" HDPE, natural colour and black

Nominal capacity ml	A mm	B mm	C mm	D mm	Weight g	Mould no.	No. of pcs. per case*	UN approval	Order no. natural colour	Order no. black
2,500	127 x 127	28.7	45	294	190	310-137	25	UN 3H1/X1.9/250	2000085405	2000085681

A = Diameter body / B = Neck i.d. / C = Cap size o.d. / D = Height without closure \*Packaging unit/minimum ordering quantity

Optimized handle for safe and comfortable handling.

Due to the increased size of the handle this new product guarantees stability and security in handling dangerous media with a high specific weight.

## CLOSURES FOR UN NARROW NECK BOTTLE SERIES 308/310 HDPE & UN NARROW NECK BOTTLE SERIES 310 "SAFEGRIP"

For bottle nominal capacity ml	C mm	1 Order no.	2 Order no.	3 Order no.
500 to 2,500	45	2000984183	2000084162	2000084182
No. of pcs. per case		450	350	350

The bottles are suitable for food, please contact us for further information on food suitability of the closures.

Blister closure PP, black, with tamper evident ring PP, red and PTFE seal



Screw closure HDPE, black, with tamper evident ring and PTFE seal

Blister closure PP, red, with tamper evident ring PP, red, with venting system and perforated PTFE seal, transport bottle in an upright position

# UN-WIDE NECK BOTTLE SERIES 310 HDPE

Square cross-section

Recessed labelling field

Three different types of closures available

Leakproof

Square | Natural colour | White

With UN approval for solids\*. The approvals are only valid with the closures offered here.

\*Except nominal capacities 50 ml and 350 ml

**UN approved for solids**

Nominal capacity ml	A mm	B mm	C mm	D mm	Mould no.	No. of pcs. per case*	UN approval	Order no. natural colour	Order no. white
50	36 x 36	21.4	28	88.5	310-115	700	-	2000076398	2000084193
100	45 x 45	24	32	101	310-88	612	UN 3H1/X0.3/S	2000073094	2000079206
250	59 x 59	35	45	129.5	310-86	273	UN 3H1/X0.8/S	2000073095	2000079207
350	60 x 60	35	45	164	310-46	190	-	2000071138	-
500	75 x 75	42.5	54	162	310-89	124	UN 3H1/X1.5/S	2000073096	2000079209
750	83 x 83	42.5	54	188	310-48	90	UN 3H1/X2.5/S	2000071140	2000079210
1,000	85 x 85	42.5	54	214	310-85	81	UN 3H1/X2.5/S	2000073097	2000079211
1,500	108 x 108	68.5	80	209	310-93	42	UN 3H1/X4/S	2000073624	2000079212
2,500	122 x 122	68.5	80	260	310-51	27	UN 3H1/X5/S	2000071143	2000079213
4,000	142 x 142	68.5	80	294	310-52	15	UN 3H1/X5.5/S	2000071144	2000079214

A = Diameter body / B = Neck i.d. / C = Cap size o.d. / D = Height without closure

\*Packaging unit/minimum ordering quantity







Square | Natural colour | White

With UN approval for solids\*.  
The approvals are only valid with the  
closures offered here.  
\*Except nominal capacities  
50 ml and 350 ml

UN approved for solids

Closures for wide neck bottles series 310

For bottle nominal capacity ml	C mm	<sup>1</sup> Order no.	Packaging Unit	<sup>2</sup> Order no.	Packaging Unit	<sup>3</sup> Order no.	Packaging Unit	<sup>4</sup> Order no.
50	28	-	1,800	2000976304	2,000	2000084198	2,000	-
100	32	2000971152	3,000	2000073826	1,800	2000083761	1,800	2000085102
250/350	45	2000971153	1,200	2000076306	800	2000083783	800	
500/750/1,000	54	2000971898	700	2000073199	550	2000083691	550	
1,500/2,500/4,000	80	2000971155	300	2000073775	210	2000083762	210	

Suitable for food.

The wide neck opening means that the bottles are easy to fill and clean.

Ideal for liquids, pastes, granulates and powders.

"Recycling symbol" in accordance with Directive 97/129/EC and 94/62/EC.

<sup>1</sup> Wrench suitable for all sizes of closures from 100–4,000 ml



Screw closure PP, blue, <sup>2</sup> with tamper evident ring and conical seal

<sup>3</sup> Screw closure PP, black, with PE-foam wad



Screw closure PP, red, <sup>3</sup> with tamper evident ring and PE-foam wad

# NARROW NECK BOTTLE SERIES 310 "CLEARGRIP" PP

- Low weight
- Stiffness
- Impact resistance
- Easily recyclable
- Leakproof



Nominal capacity ml	A mm	B mm	C mm	D mm	Mould no.	No. of pcs. per case*	Order no.
100	46 x 46	18.6	32	108	310 148	512	2000086456
250	60 x 60	18.6	32	136	310 149	247	2000086457
500	75 x 75	28.6	45	169	310 150	132	2000086458
1,000	94 x 94	28.6	45	204	310 151	64	2000086459

A = Diameter body / B = Neck i.d. / C = Cap size o.d. / D = Height without closure  
\*Packaging unit/minimum ordering quantity


Screw closure PP, white for 32 mm thread and HDPE black for 45 mm thread; with PTFE-insert and tamper evident ring


For bottle nominal capacity ml	C mm	No. of pcs. per case	Order no.
100 to 250	32	1,200	2000086336
500 to 1,000	45	450	2000984183

 Suitable for food.

 Low carbon footprint, easily recyclable.

 Good transparency and glaze (ideal for product presentations).

 Low weight, outstanding chemical resistance and thermal stability, balanced stiffness and impact resistance.

 "Recycling symbol" in accordance with Directive 97/129/EC and 94/62/EC.



# NARROW NECK BOTTLE SERIES 310 PVC

*Crystal clear  
Secure grip  
Leakproof*

Rectangular | Transparent



Nominal capacity ml	A mm	B mm	C mm	D mm	Mould no	No. of pcs. per case*	Order no.
250	59 x 38	19.9	25	151.5	310-63	390	2000071490
500	70 x 50	19.9	25	189	310-19	194	2000071106
1,000	87.5 x 61	19.9	25	233	310-20	106	2000071107

A = Diameter body / B = Neck i.d. / C = Cap size o.d. / D = Height without closure  
\*Packaging unit/minimum ordering quantity

## Closures

For bottle nominal capacity ml	C mm	① Order no.	② Order no.
250 to 1,000	25	2000971704	2000074185
No. of pcs. per case		2,300	2,400

- ① Compression moulded closure, melamine, white, with PE-foam insert
- ② Screw closure PP, with nozzle, white



Suitable for food.



Crystal clear presentation of your product.



Ribbed sides for secure grip.



"Recycling symbol" in accordance with Directive 97/129/EC and 94/62/EC.

# PCR

## Post-Consumer-Recycling

The German Packaging Act (VerpackG), the Plastic strategy of the EU, the Green Deal and the plastic tax are all initiatives and guidelines with a focus on promoting the circular economy. The aim is both to increase the recycling rate and the recycle use. We also want to make our contribution and help contribute to the promotion of the circular economy.

### What drives us?



#### Environment protection

The circular economy enables a more efficient use of raw materials. This leads to a reduction of CO<sub>2</sub>-emissions and to a reduced usage of mineral oil.



#### Scarcity of resources

Since our resources are limited, and demand continues to rise due to a growing world population the circular economy offers a significant contribution to the reduction of plastic waste.

### We give plastic packaging a second life.

### Sustainable packaging solution at the same high quality:

For our customer Kiehl we manufacture the 5 l jerrycan from 100 % PCR-HDPE material in serial production.





# PCR

## Your benefits!



### Strong external impact

A sustainably produced packaging offers a great potential for effective sustainable marketing.



### Cost reduction

By using PCR material, disposal costs are reduced and the plastic tax can be avoided.

## Our Experience!



### Test facility

with retrieval system, presses, transport and manufacturing.



### Quality standards

like "virgin" material.



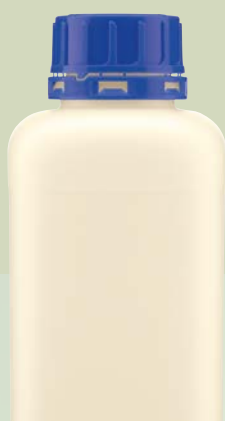
### Continuous contact

with recyclate manufacturers for maximum product quality.

**You are interested in one of our standard PCR products? Our sales team will be happy to answer your questions.**

+49 (0)228 9868-100

sales.ip@kautex.com







# NARROW NECK BOTTLE SERIES 310 HDPE

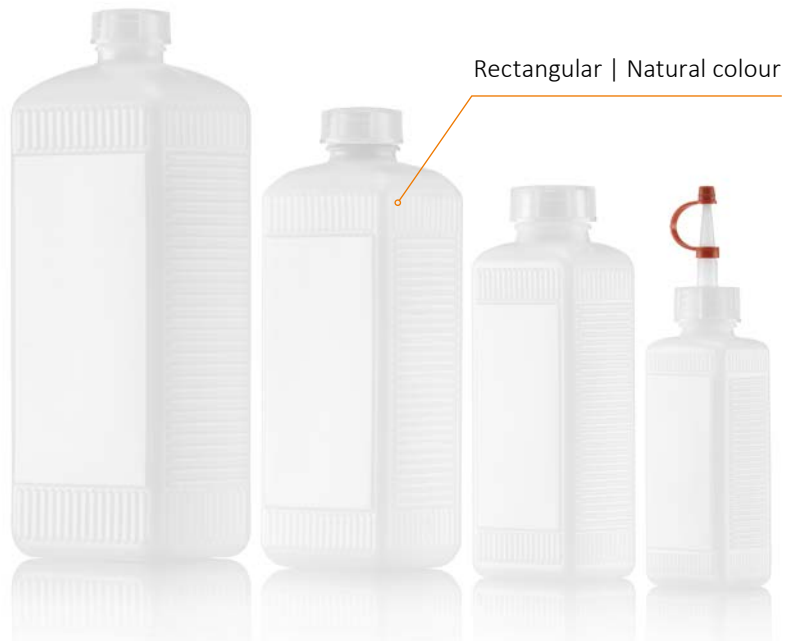
- High stability
- Recessed labelling field
- Four different types of closures
- Leakproof

 Suitable for food.

 Ribbed sides for secure grip.

 Four different types of closures (can also be used with wash bottle closure, see page 4).

 "Recycling symbol" in accordance with Directive 97/129/EC and 94/62/EC.



Nominal capacity ml	A mm	B mm	C mm	D mm	Mould no.	No. of pcs. per case*	No. of pcs. per packg.**	Order no.
100	40.5 x 32	12.9	18	110.5	310-100	648	108	2000070520
250	53.5 x 42.5	19	25	148	310-250	381	-	2000070521
500	63.5 x 54.5	19	25	180	310-500	205	-	2000070522
1,000	84 x 66	19	25	222.5	310-1000	108	-	2000070523

A = Diameter body / B = Neck i.d. / C = Cap size o.d. / D = Height without closure

\*Packaging unit/minimum ordering quantity

\*\*Subpackaging = quantity packed in extra cardboard box

## Closures

For bottle nominal capacity ml	C mm	① Order no.	② Order no.	③ Order no.
100	18	2000090604	2000072101	2000073350
250 to 1,000	25	2000090605	2000072100	2000073350



③ Dropper cap LDPE, natural colour, with nozzle



## WIDE NECK BOTTLE SERIES 310 HDPE

*Easy filling*

*Secure grip*

*Rectangular labelling field*

*Leakproof*

Rectangular | Natural colour



Nominal capacity ml	A mm	B mm	C mm	D mm	Mould no.	No. of pcs. per case*	Order no.
250	59 x 59	30.8	40	110.5	310W-250	294	2000070538
500	69 x 69	30.8	40	145.5	310W-500	164	2000070539
1,000	86.5 x 86.5	39.2	50	178.5	310W-1000	90	2000070540

A = Diameter body / B = Neck i.d. / C = Cap size o.d. / D = Height without closure


\*Packaging unit/minimum ordering quantity

### Screw closure LDPE, natural colour


For bottle nominal capacity ml	C mm	Order no.
250/500	40	2000090608
1,000	50	2000090609

Packed in PE bag of 100 pcs.

 Suitable for food.

 The wide neck means easy filling, emptying and cleaning.

 Ribbed sides for secure grip.

 "Recycling symbol" in accordance with Directive 97/129/EC and 94/62/EC.



# WIDE NECK CONTAINER SERIES 310 PVC

Wide neck opening

Easy to fill

Easy to clean

Leakproof

Square | Transparent | Brown-transparent





Nominal capacity ml	A mm	B mm	C mm	D mm	Mould no.	No. of pcs. per case*	No. of pcs. per packg.**	Order no. transparent	Order no. brown-transparent
50	38.5 x 38.5	23	32	59	310-26	972	162	2000070595	2000070697
100	46 x 46	31	40	71	310-27	480	80	2000070596	2000070698
200	59.5 x 59.5	41	50	87	310-28	406	-	2000070597	2000070699
300	67.5 x 67.5	41	50	94	310-42	300	-	2000071080	2000071081
500	80.5 x 80.5	54	65	108	310-31	162	-	2000070598	2000070700
750	91.5 x 91.5	69	80	120	310-43	114	-	2000071082	2000071083
1,000	97 x 97	69	80	143	310-32	96	-	2000070599	2000070701
2,000	122 x 122	69	80	187	310-94A	44	-	2000073352	2000073353


A = Diameter body / B = Neck i.d. / C = Cap size o.d. / D = Height without closure


\*Packaging unit/minimum ordering quantity \*\*Subpackaging = quantity packed in extra cardboard box

 Suitable for food.

 Due to the wide neck opening the containers are easy to fill and to clean.

 Black closure with PE-foam insert, leakproof.

 Brown transparent, suitable for light-sensitive media.

 "Recycling symbol" in accordance with Directive 97/129/EC and 94/62/EC.



## WIDE NECK CONTAINER SERIES 310 PETG

Wide neck opening

Easy to fill

Easy to clean

Leakproof

Excellent transparency | Leakproof

Black closure with  
PE-foam wad



Nominal capacity ml	A mm	B mm	C mm	D mm	Mould no.	No. of pcs. per case*	No. of per packg.** pcs.	Order no.
50	38.5 x 38.5	23	32	60.5	310-26	972	162	2000074371
100	46 x 46	31	40	71	310-27	480	80	2000074372
200	59.5 x 59.5	41	50	88	310-28	406	-	2000074373
500	80.5 x 80.5	54	65	108	310-31	162	-	2000074374
1,000	97 x 97	69	80	143	310-32	96	-	2000074375
2,000	122 x 122	69	80	187	310-94A	44	-	2000084404

A = Diameter body / B = Neck i.d. / C = Cap size o.d. / D = Height without closure

\*Packaging unit/minimum ordering quantity

\*\*Subpackaging = quantity packed in extra cardboard box



Suitable for food.



Crystal-clear for an excellent product presentation.



"Recycling symbol" in accordance with Directive 97/129/EC and 94/62/EC.

This container is also suitable as a sales or gift packaging.

## CLOSURES FOR WIDE NECK CONTAINER SERIES 310 PVC AND PETG

Screw closure PP, black, with PE-foam wad

Nominal capacity ml	C mm	Order no.
50	32	2000070750
100	40	2000070751
200/300	50	2000070752

Packed in PE bag of 100 pcs.

Screw closure PP, black, with PE-foam wad

Nominal capacity ml	C mm	Order no.
500	65	2000070753
750/1,000	80	2000070754
2,000	80	2000070755

Packed in PE bag of 100 pcs.



# WIDE NECK CONTAINER SERIES 310 PVC






Wide neck opening  
Easy to fill and to clean  
Leakproof

Square | Transparent | Brown-transparent



Nominal capacity ml	A mm	B mm	C mm	D mm	Mould no.	No. of pcs. per case*	No. of pcs. per packg.**	Order no. transparent	Order no. brown-transparent
100	46 x 46	31	40	83.5	310-27B	480	80	2000084419	2000084593
200	59.5 x 59.5	41	50	98.5	310-28B	288	48	2000084412	2000084596
300	67.5 x 67.5	41	50	105.5	310-42B	288	-	2000084423	2000084601
500	80.5 x 80.5	54	65	118.5	310-31B	126	21	2000084422	2000084599

A = Diameter body / B = Neck i.d. / C = Cap size o.d. / D = Height without closure  
\*Packaging unit/minimum ordering quantity \*\*Subpackaging = quantity packed in extra cardboard box

-  Suitable for food.
-  Brown transparent, suitable for light-sensitive media.
-  Due to the wide neck opening the containers are easy to fill and to clean.
-  With tamper evident closure, PP, black colour, leakproof.
-  "Recycling symbol" in accordance with Directive 97/129/EC and 94/62/EC.

Screw closure PP, black, with PE-foam wad and tamper evident ring

Nominal capacity ml	C mm	Order no.
100	40	2000084479
200/300	50	2000084480
500	65	2000084481

Packed in PE bag of 100 pcs.

The content is safe against unauthorized removal. Opening the closure leaves distinct traces.





# WIDE NECK JAR SERIES 376 HDPE

*Wide neck opening  
Easy to fill and to clean  
Leakproof*

Round | Natural colour



Nominal capacity ml	A mm	B mm	C mm	D mm	Mould no.	No. of pcs. per case*	Order no.
100	48	31	40	77	376-34	700	2000071492
250	65	41	50	98	376-18	298	2000070541
500	80	53	65	122	376-12	162	2000070542
750	94	53	65	130	376-19	108	2000070543
1,000	100	67	80	153	376-13	75	2000070544
1,500	114	67	80	173	376-20	48	2000070545
2,000	126	67	80	192	376-25	40	2000071066

Screw closure PP, black, with PE-foam wad

Nominal capacity ml	C mm	Order no.
100	40	2000070751
250	50	2000070752
500/750	65	2000070753
1,000/1,500/2,000	80	2000070754

Packed in PE bag of 100 pcs.

A = Diameter body / B = Neck i.d. / C = Cap size o.d. / D = Height without closure  
\*Packaging unit/minimum ordering quantity



Suitable for food.



Due to the wide neck opening the containers are easy to fill and to clean.



Particularly suitable for storage, transport or disposal of powdery or granulated materials.



Black closure with PE-foam wad, leakproof.



"Recycling symbol" in accordance with Directive 97/129/EC and 94/62/EC.



## WIDE NECK CONTAINER SERIES 311 HDPE

Space-saving  
Moulded hand-grip  
Convenient handling

Square | Natural colour | With moulded hand-grip



Wide neck container series 311 HDPE, square, natural colour

Nominal capacity ml	A mm	B mm	C mm	D mm	Mould no.	No. of pcs. per case*	Order no.
2,300	135 x 135	68.5	80	188	311-13	36	2000083981







Wide neck container series 311 HDPE, square, natural colour, with screw closure

Nominal capacity ml	A mm	B mm	C mm	D mm	Mould no.	No. of pcs. per case*	Order no.
4,400	142 x 142	109	120	263	311-03	52	2000098311

A = Diameter body / B = Neck i.d. / C = Cap size o.d. / D = Height without closure  
\*Packaging unit/minimum ordering quantity

Screw closure PP, blue, with tamper evident ring and conical seal

For bottle nominal capacity ml	C mm	No. of pcs. per case	Order no.
2,300	80	210	2000073775

-  Suitable for food.
-  The square shape saves space.
-  With moulded hand-grip for safe and convenient handling.
-  Ideal for collecting, storing and transporting solid chemicals.
-  Nominal capacity 4,400 ml not leakproof.
-  "Recycling symbol" in accordance with Directive 97/129/EC and 94/62/EC.



# MULTIPURPOSE CONTAINER SERIES 357 HDPE

Polygonal | Natural colour | With screwed-on closure

*Wide neck opening  
Easy to fill  
Easy to clean*



Nominal capacity ml	A mm	B mm	C mm	D mm	Mould no.	No. of pcs. per case*	Order no.
5,000	190 x 180	108.5	120	230	357-5	14	2000070546
10,000	230 x 222	108.5	120	303	357-10	6	2000070547

A = Diameter body / B = Neck i.d. / C = Cap size o.d. / D = Height without closure

\*Packaging unit/minimum ordering quantity



Suitable for food.



The wide neck opening means easy filling, emptying and cleaning.



Particularly suitable for storage, transport or disposal of powdery or granulated materials.



Not leakproof.



“Recycling symbol” in accordance with Directive 97/129/EC and 94/62/EC.




# CARBOY SERIES 350 HDPE

Litre scale

Optional stopcock connection

 Suitable for food.

 Printed litre scale.

 "Recycling symbol" in accordance with Directive 97/129/EC and 94/62/EC.

With and without threaded stopcock connection.

Stopcock, media-contacting parts PP, PE & PTFE, blue

**1** Stopcock, HDPE, blue



**4** Blank stopper, HDPE, natural colour



**3** Adapter blue for



**2**

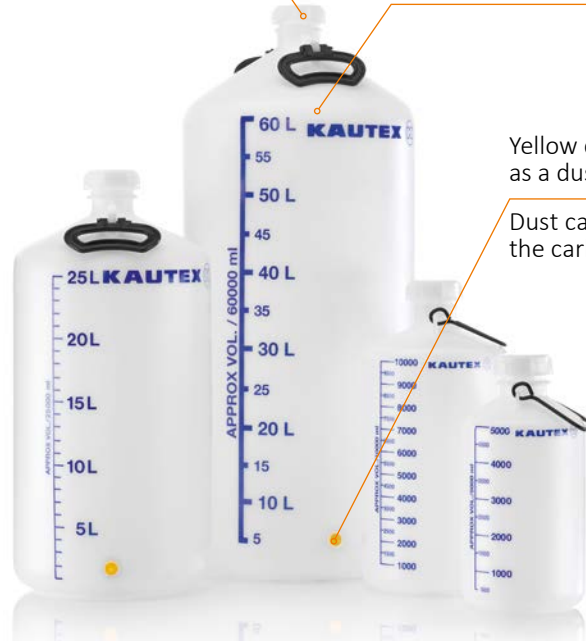
**5** Replacement closure, HDPE, natural colour (not illustrated)

Screwed-on closure

Natural colour | Blue litre-scale

Yellow dust cap serves as a dust protection.

Dust cap doesn't seal the carboy.



Nominal capacity litre	A mm	B mm	D mm	Mould no.	No. of pcs. per case*	Order no.
<b>Without stopcock connection</b>						
5	167	50	330	350-5	11	2000084131
10	206	50	427	350-10	6	2000084133
25	278	50	580	350-25	5	2000084135
60	346	50	823	350-60	2	2000084136
<b>With stopcock connection</b>						
5	167	50	330	350-5Z	11	2000084137
10	206	50	427	350-10Z	6	2000084132
25	278	50	580	350-25Z	5	2000084138
60	346	50	823	350-60Z	2	2000084139

A = Diameter body / B = Neck i.d. / C = Cap size o.d. / D = Height without closure  
\*Packaging unit/minimum ordering quantity

## Accessories for carboys

<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>
Order no.	Order no.	Order no.	Order no.	Order no.
2000076459	2000083794	2000083793	2000070625	2000073196




# BUCKET SERIES 610/615 LDPE

*Rustproof handle*  
*Thick-walled*  
*Sturdy*



Capacity litre	Diameter mm		Height mm	Mould no.	No. of pcs. per case*	Order no.
	Base	Top	without handle			
<b>With spout, white, with plastic-coated steel carrying handle</b>						
10	193	280	300	610-10	10	2000070588
15	235	316	335	610-15	10	2000070589
<b>Without spout, white, with plastic-coated steel carrying handle</b>						
10	212	253	279	615-10	10	2000070585
<b>Without spout, dark grey, with rustproof handle</b>						
10	212	253	279	615-10B	10	2000070587

\*Packaging unit/minimum ordering quantity

 Suitable for food.

**Industrial and laboratory buckets:**

With and without spout.

Plastic coated steel handle.

Would you like them to be individually printed?

Just contact us!



“Recycling symbol” in accordance with Directive 97/129/EC and 94/62/EC.

**Builder’s bucket, dark grey:**

With rustproof handle.

All buckets are thick-walled and very stable for a long working life and with graduated litre scale on the inside.




# UN OPEN TOP DRUM SERIES 359 HDPE

Lid  
UN approval  
Clamping ring




Nominal capacity litre	A mm	B mm	Height with closure	No. per case pcs.	UN approval	Order no.
30	313	251	518	1	UN 1H2/X61/S	2000090800
60	398	325	620	1	UN 1H2/X88/S	2000090867
120	469	395	790	1	UN 1H2/X225/S	2000091093

A = Diameter body / B = Neck i.d

 Suitable for food.

 All sizes with UN approval for solids.

 "Recycling symbol" in accordance with Directive 97/129/EC and 94/62/EC.

Meet the GGVS/GGVE (rail/road/sea) regulations for the transport of solid substances with a density of at least 1.5 g/ccm.

Supplied complete with PE-lid and galvanized clamping ring.

30 and 60 l with handles.





# INDUSTRIAL JERRYCAN SERIES 353 HDPE

UN approval

Comprehensive range of closures

Varied use

Leakproof

Natural colour



UN approval for liquids

Nominal capacity l	A mm	B mm	C mm	D mm	Weight g	Pcs. PE-bag*	Pcs./pallet	UN approval	Order no.
Industrial jerrycan series 353 HDPE, natural colour									
2	145 x 109	34.5	45	196	110	25	300	-	2000095939
2.5	153 x 115	34.5	45	208	125	25	300	UN 3H1/Y1.6/150	2000095966
3	153 x 115	34.5	45	240	140	25	250	UN 3H1/Y1.6/150	2000096404
5	190 x 145	40.5	50	251	250	16	160	UN 3H1/X1.9/250	2000092562
6	192 x 145	34.5	45	294	265	16	288	-	2000095937
8	230 x 190	34.5	45	270	320	10	200	-	2000080289
10	230 x 190	40.5	50	310	450	10	80	UN 3H1/X1.9/250	2000095642
20	290 x 246	48.5	60	385	950	6	36	UN 3H1/X1.9/250	2000096138
30	320 x 284	48.5	60	435	1,250	6	36	UN 3H1/X1.9/250	2000095981

A = Diameter body / B = Neck i.d. / C = Cap size o.d. / D = Height without closure

\*Packaging unit/minimum ordering quantity



The jerrycans are suitable for food, please contact us for further information on food suitability of the closures.



Jerrycans 2.5 to 5 and 10 to 30 l with UN approval.

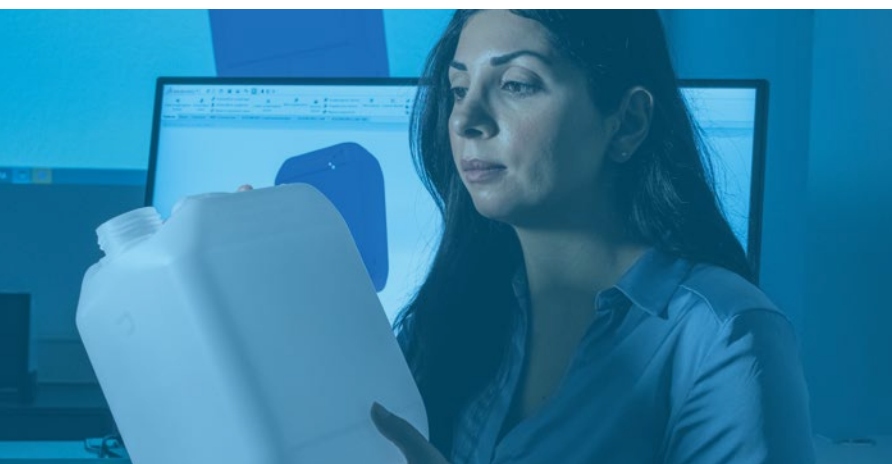


Universal jerrycan for industry, trade and laboratories.



"Recycling symbol" in accordance with Directive 97/129/EC and 94/62/EC.

The jerrycans with a comprehensive range of closures accessories can be used for almost any purpose.



# INDUSTRIAL JERRYCAN SERIES 353 HDPE BLUE

UN approval  
Varied use  
Leakproof



**UN approval for liquids**

Nominal capacity l	A mm	B mm	C mm	D mm	Weight g	Pcs./ PE bag*	Pcs./ pallet	UN approval	Order no.
Industrial jerrycan series 353 HDPE, blue colour									
20	290 x 246	48.5	60	385	950	6	36	UN 3H1/X1.9/250	2000096232
25	290 x 246	48.5	60	450	1,100	6	36	UN 3H1/X1.9/250	2000086794
30	320 x 284	48.5	60	435	1,250	6	36	UN 3H1/X1.9/250	2000095982

A = Diameter body / B = Neck i.d. / C = Cap size o.d. / D = Height without closure

\*Packaging unit/minimum ordering quantity



The jerrycans are suitable for food.

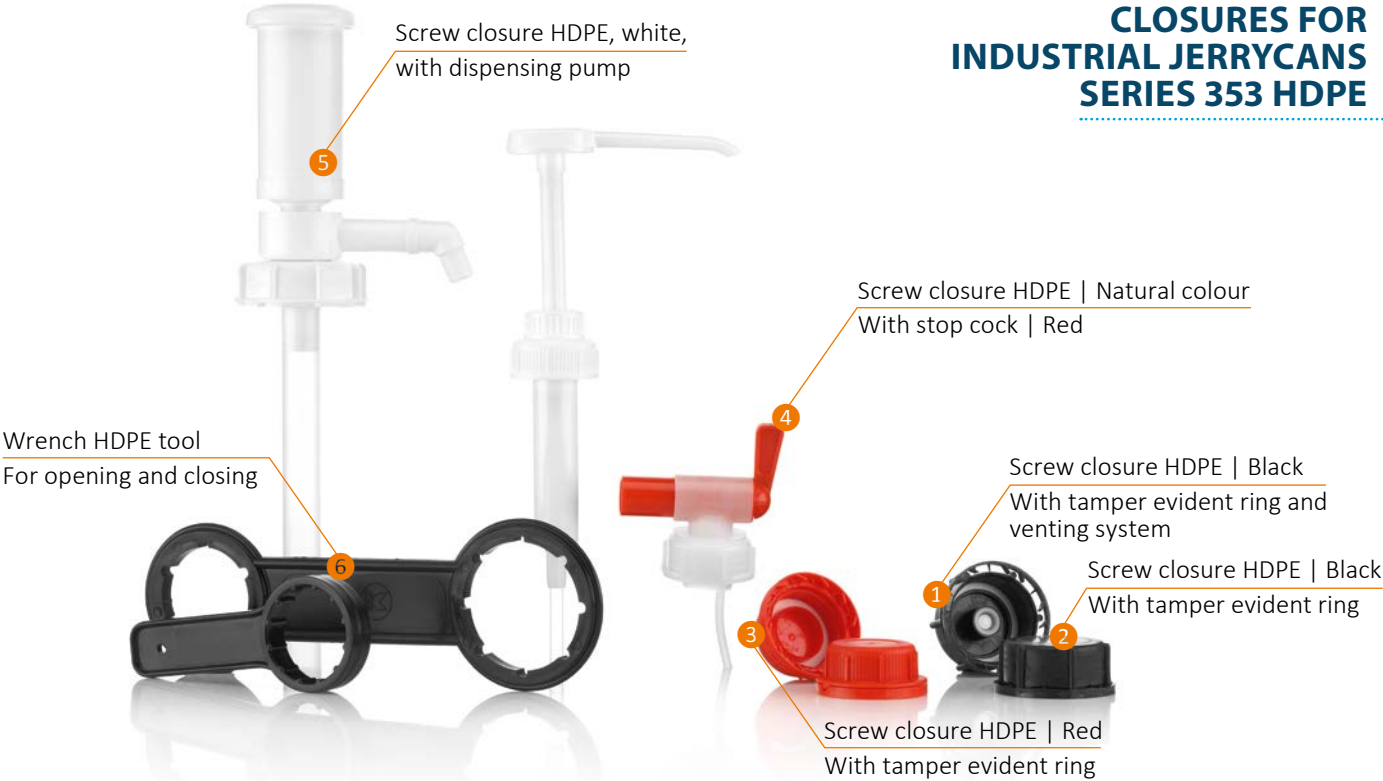
Please contact us for further information on food suitability of the closures.



“Recycling symbol” in accordance with Directive 97/129/EC and 94/62/EC.



# CLOSURES FOR INDUSTRIAL JERRYCANS SERIES 353 HDPE



For jerrycan nominal capacity litre	1 Order no.	2 Order no.	3 Order no.	4 Order no.	5 Order no.	6 Order no.
2/2.5/3	2000086365	2000085874	2000085870	2000095872	2000096921	2000090464
5	2000095912	2000095946	2000095901	2000090386	2000090568	2000090465
6/8	2000086365	2000085874	2000085870	2000095872	2000096921	2000090464
10	2000095912	2000095946	2000095901	2000090386	2000090568	2000090465
20	2000095898	2000095987	2000095984	2000090480	2000083884	2000090465
25	2000095898	2000095987	2000095984	2000090480	2000083885	2000090465
30	2000095898	2000095987	2000095984	2000090480	2000083886	2000090465



“Recycling symbol” in accordance with Directive 97/129/EC and 94/62/EC.

# Know how and competence\_ *for successful products*

KAUTEX Textron has been specialised in manufacturing extrusion-blown plastic containers for more than eight decades.

Goal-directed with uncompromising standards for quality and customer focus, we have made our products to belong to the most successful on the international market.

We are meeting the challenges of tomorrow by resolutely leveraging the capacity for innovation and technological leadership in plastics processing of our international group.

## Standard Packaging

- Successful products for laboratories, chemical industries and pharmacy
- Many versions, sizes, materials, accessories
- For special applications also possible with barriers (coex, fluorination)
- Available from stock
- Many models available with UN approval

## Special Packaging

- Bottles and jerrycans made of PE, PP, PVC and PETG; for special applications also available with barriers (coex)
- The customer determines the design and pays for the mould; the products are supplied only to this customer
- UN approval available
- Rapid Prototyping concept







### Jerrycans

- Jerrycans: 2 l/2.5 l/3 l/5 l/6 l/8 l/10 l/12 l/15 l/20 l/25 l/30 l
- Available from stock
- UN approval available

### AgroPack® Product Range

- Jerrycans for crop protection agents: 5 l/10 l
- Bottles for crop protection agents: 250 ml/500 ml/1,000 ml
- Available with and without barrier (coex)
- UN approval available



# Intended use of products\_ *materials at kautex*

The bottles and containers in this catalogue are, if not labeled otherwise, suitable for foods and satisfy the European requirements of Regulation (EC) No. 1935/2004 and Regulation (EU) No. 10/2011. The bottles and containers can therefore be used within the European Economic Area as food packaging. We would be glad to provide the corresponding declarations of conformity upon request and recommended closures which are safe for contact with foods and would be suitable for your applications. Our products are produced with GMP standards Regulation (EC) No. 2023/2006 (of 22 December 2006) on good manufacturing practice for materials and articles intended to come into contact with food as amended in mind.

The bottles and containers in this catalogue satisfy the European legal requirements for packages for cosmetic goods according to Regulation (EC) No. 1223/2009. They are therefore permissible for use within the European Economic Area as packaging for cosmetic products. The conditions for use and notices regarding safe use found in the respective declarations of conformity and product data sheets must be observed.

Our UN packagings satisfy the legal requirements of the GGVSEB and the European agreements ADR, ADN and RID for the carriage of dangerous goods by road, rail and inland waterways. The UN dangerous materials packagings satisfy the requirements of European chemical law for packages for hazardous substances and mixtures according to Regulation (EC) No. 1272/2008.

They are therefore permissible for use within the European Economic Area as packaging for hazardous substances and mixtures. The provision and notices regarding the proper use of the packaging according to the UN permits of the Federal Institute for Materials Research and Testing (BAM) must be observed.

Our products can frequently also be used or adapted for purposes other than those cited. We possess our own productions facilities in which packages of pharmaceutical and medical products can be produced in accordance with GMP standards for pharmaceutical products and medical devices pursuant to Directive 2003/94/EC and Directive 93/42/EEC.

If you have a use in mind for pharmaceutical and medical purposes or a use that deviates from the above, please contact us so that we can find a solution tailored to your needs. The same holds true for uses outside of the European Economic Area and for UN dangerous goods packages that fall outside of the territorial scope of the European agreements ADR, ADN, and RID. Without consulting with us, any uses that deviate from the proper uses listed above lie in the responsibility of the user.

## **Registration**

As we are manufacturing products according to the REACH regulation, we are not directly affected by the registration. However our suppliers are subject to this obligation and we are working closely with them.

## **Substances of Very High Concern – SVHC**

The currently applicable SVHC list (candidate list) defines substances for which there is a registration obligation to customers and downstream users. According to article 33 of the REACH regulation, the manufacturing company shall “supply to the consumer all information available to him concerning the safe use of the product, and shall at least supply the name of the relevant substance”.

## **Substances of REACH Appendix XIV and XVII**

Based on the substances defined in the candidate list, the EU discusses which of these substances require authorization. In cooperation with our suppliers, we are launching appropriate activities in case that our products contain substances listed in Appendix XIV so that they have to be replaced.

## **Restrictions are listed in Appendix XVII**

The restrictions are very specific and often combined with limit values. Again, Kautex is in close contact with our suppliers in order to ensure compliance with the material restrictions. You will find more detailed information related to REACH at <http://echa.europa.eu/>

Without UN permits, our products may be used for packaging for hazardous substances and mixtures according to Regulation (EC) No. 1272/2008 only if the user can guarantee that the requirements according to Article 35 of this regulation are observed. This check must be performed by the user on his or her own responsibility. In particular, the user must make sure the respective content does not damage the materials of packages and closures or react with these materials to form dangerous compounds.

## **Compliance with RoHS regulations**

Packaging produced by Kautex complies with the Restriction of Hazardous Substances EU-Guideline 2011/65 incl. EU 2015/863 of the European Parliament and Council of June 8th, 2011 on the restriction of the use of certain hazardous substances in electrical and electronic equipment.

The aim of the RoHS EU-Guideline 2011/65 is the protection of human health and environment. The substances mentioned in the Guidelines include lead, mercury, cadmium, hexavalent chromium, polybrominated biphenyls, and polybrominated diphenyl ethers.



### **Polyolefins (PE): LDPE, HDPE, PP**

- Physiologically inert
- Flexible and inherently stable
- Good chemical resistance
- Shatter-proof
- PP is autoclavable

### **Polypropylen (PP)**

- Rigid and inherently stable
- Very good chemical resistance
- Features a very good resistance against tension cracking
- In thin layers almost transparent, thicker layers are translucent up to opaque white

### **Low-density Polyethylene (LDPE)**

- Flexible, tough and shatter-proof
- In thin layers almost transparent, thicker layers are translucent up to opaque white
- Resistant to water, aqueous solutions

### **High-density Polyethylene (HDPE)**

- Rigid and shatter-proof
- Slightly transparent in thin layers, in thicker layers weakly translucent to opaque white
- Resistant to water, aqueous solutions and most chemicals
- Excellent water vapour resistance

### **Polyvinyle chloride (PVC hard)**

- Physiologically inert
- Crystal-clear or transparent brown
- Good chemical resistance
- Extremely rigid, high breaking resistance
- High transparency
- Resistant to water, aqueous solutions, alcohols and oils
- Slight gas permeability, e.g. to oxygen
- Adequate water vapour resistance in most cases

### **Co- Polyester (PETG) (Polyethylene Terephthalat Glycole)**

- Physiologically inert
- Flexible and inherently stable
- High transparency (glass-clear), optically brilliant
- Shatter-proof
- Resistant to water, aqueous solutions, salts,
- Aliphatic mediums, hydrocarbons and oils.



# Usage instruction\_

## *for bottles, jerrycans and closures*

### **1. General Information**

This usage instruction contains important information in connection with German law governing product safety in order to ensure the safety and protect the health of users. It must be ensured that this information is brought to the attention of the users (Directive 2001/95/EC on General Product Safety).

In the case of UN dangerous goods packaging, all stipulations and notes on the respective UN approval relating to proper use of packaging are to be respected and communicated to any and all parties using this packaging for dangerous goods. Only the respective closures licensed in the respective approval may be used. UN approvals can be viewed at the homepage of the Bundesanstalt für Materialforschung und -prüfung <https://app.tes.bam.de/php/d-bam/index.php?id=zulassung>

### **2. Storage**

The recommended storage temperature for bottles/jerry cans should be between + 5 °C and +40 °C. Higher temperatures may cause deformity of the bottles/jerry cans.

The bottles/jerry cans must not be exposed to direct sunlight in order to avoid the containers' mechanical properties being negatively affected.

### **3. Use / filling**

The unused bottles/jerry cans should only be used up to 5 years after the production date.

Please make sure that the packaging and in particular the sealing zones are not damaged/negatively affected when emptying and filling the containers. Avoid any and all mechanical or thermal damage to the bottles/jerry cans. Please use the degassing closures for gaseous goods.

We recommend to use specific knives/cutter with a "safe blade" to open the stretch film to avoid any damage to the product.

### **4. Filling hot substances**

Do not stack the bottles/jerry cans while they are still warm. The bottles/jerry cans may only be closed after having cooled down, or only with a degassing closure in order to ensure pressure equalization.

The bottles/jerry cans should be able to cool off quickly. If they maintain higher temperatures (60–80 °C) for a lengthy period, it could cause permanent deformation of the jerry cans. The bottles/jerry cans must be filled in an upright position on a level surface. Floors or areas with openings or unsuitable pallets (light pallets) should be avoided.

Ensure the packaging container is securely positioned and fill the filling product into the filler opening provided for this purpose at atmospheric pressure. If the filling temperature should ever exceed 40 °C, consult the supplier of the packaging container beforehand. To prevent vacuum deformation when cooling down, measures must be taken to ensure sufficient ventilation of the packaging container

to compensate for the vacuum. Stacking should also be avoided until the packaging container has completely cooled down.

Packaging containers for the transport of dangerous goods must be properly closed both after filling and before handing over for carriage.

### 5. Chemical stability

Our products without UN approval may only be used as packaging for dangerous substances and mixtures in accordance with Regulation (EC) no. 1272/2008 if the user ensures that the requirements set out in Article 35 of this Regulation have been adhered to. This inspection is to be conducted by the user under his own responsibility. In particular, it is to be inspected whether the respective content does not damage the material constituting the packaging and fastenings or can react with these to form hazardous compounds. You will find information on the chemical stability of basic materials that are used in our catalogue. Please follow the link: <https://www.kautex.de/de/verpackung/katalog-referenzen>

The filling product is then allocated (and hence evidence of chemical compatibility provided) either using the assimilation method described under ADR 4.1.1.21 or via allocation according to a laboratory method test.

### 6. Emptying

As packaging containers do not usually have a bottom outlet, they can only be emptied via the filler opening. This can be done independently or by using suitable pumps or suction devices.

When the content is poured out independently, there is a tendency for the packaging container to “gurgle” (content surge) so the container must be emptied with appropriate caution. If the packaging container is mounted on a surface when the content is emptied out, the surface should be such that it does not damage the packaging container. If larger packaging containers are also emptied in this way, appropriate levers and turning devices are to be used.

When emptying using a drum pump or suction device, ensure that the packaging container is standing on a level surface free of foreign bodies. The container must be secured to prevent it from tipping over. The extraction lances should be suitable for the size of the container and the diameter of the filler opening so that these do not damage the packaging container.

The emptying of the container should never be carried out under pressure. It should also be ensured that no vacuum forms in the packaging container during emptying.

### 7. Re-use

Packaging containers are basically designed for one-off use, or they can be reused depending on the design and the preceding use. The prerequisite is that before refilling and handing over for conveyance, the container is inspected to ensure it is free from corrosion, contamination or other damage.

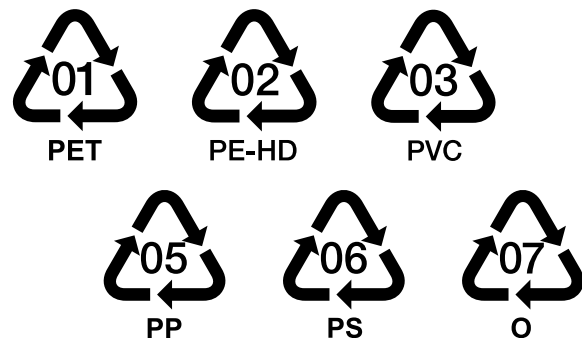
In any event, it should be ensured that the packaging container meets the same standards for re-use as it did before the initial filling. Every packaging container that shows signs of reduced strength must no longer be used. (ADR sub-article 4.1.1.9) The responsibility for inspection and re-use lies with the user.

### 8. Information

Further information are listed in the brochure of “Industrievereinigung Kunststoffverpackungen e.V.” (also in english): [http://www.kunststoffverpackungen.de/technische\\_broschueren\\_5079.html](http://www.kunststoffverpackungen.de/technische_broschueren_5079.html)

### 9. Recyclingcode

According to 97/129/EG et 94/62/EG



Also specified for the products in our catalog: <https://www.kautex.com/en/packaging/catalogsbroschures>

# Data sheet for thermoplastics\_

## in general

		Low density Polyethylene LDPE	High density Polyethylene HDPE	Polypropylene PP	PVC rigid	Co-Polyester PETG	Polyamide	Polycarbonate
Physical properties of thermoplastics	natural colour	transparent	translucent white	transparent	crystal clear	crystal clear	up to 0.5 mm wall thickness crystal clear	crystal clear
	state at 20 °C	flexible	flexible/rigid	flexible/rigid	brittle/impact resistant	brittle/impact resistant	flexible/tough vulnerable to folding	glasklar
	specific weight at 20 °C	approx. 0.92	approx. 0.95	approx. 0.905	approx. 1.38	approx. 1.25	approx. 1.12	approx. 1.2
	shore hardness 20 °C	approx. 40	approx. 50	approx. 65	approx. 80	approx. 65	approx. 50	approx. 80
	tear strength at 20 °C	approx. 10 N/mm <sup>2</sup>	approx. 20N/mm <sup>2</sup>	approx. 30 N/mm <sup>2</sup>	approx. 50 N/mm <sup>2</sup>	approx. 50 N/mm <sup>2</sup>	approx. 45 N/mm <sup>2</sup>	approx. 60 N/mm <sup>2</sup>
	elongation at 20 °C	approx. 500 %	approx. 500 %	approx. 650 %	approx. 30 %	approx. 15 %	approx. 200 %	approx. 100%
	water absorption	Traces	Traces	Traces	Traces	Traces	high	Traces
diffusion	Hydrocarbons	Hydrocarbons	Hydrocarbons	Hydrocarbons	Hydrocarbons	water, Hydrocarbons	water, Hydrocarbons	

This information only provides a general indication.

Chemical properties of thermoplastics	resistant against	non oxidising alkalis, organic solvents, excl. chlorinated hydrocarbons; it is advisable to carry out storage tests for testing diffusion		see LDPE/HPDE	acids, alkalis, petrol, oil, fats, turpentine, alcohol	petrol, oils, fats, turpentine	petrol, benzene, chlorinated hydrocarbons, oils, fats	weak acids
	not resistant against	oxidising acids, oils, fats, chlorinated hydrocarbons	oxidising acids, chlorinated hydrocarbons	oxidising acids, oils, fats, chlorinated hydrocarbons	esters, ketone, benzene, chlorinated hydrocarbons, hydrogen sulphide	esters, ketone, benzene, chlorinated hydrocarbons	acids, alkalis, alcohol, water	alkalis, strong acids, esterbenzene, chlorinated hydrocarbons

This information only provides a general indication.

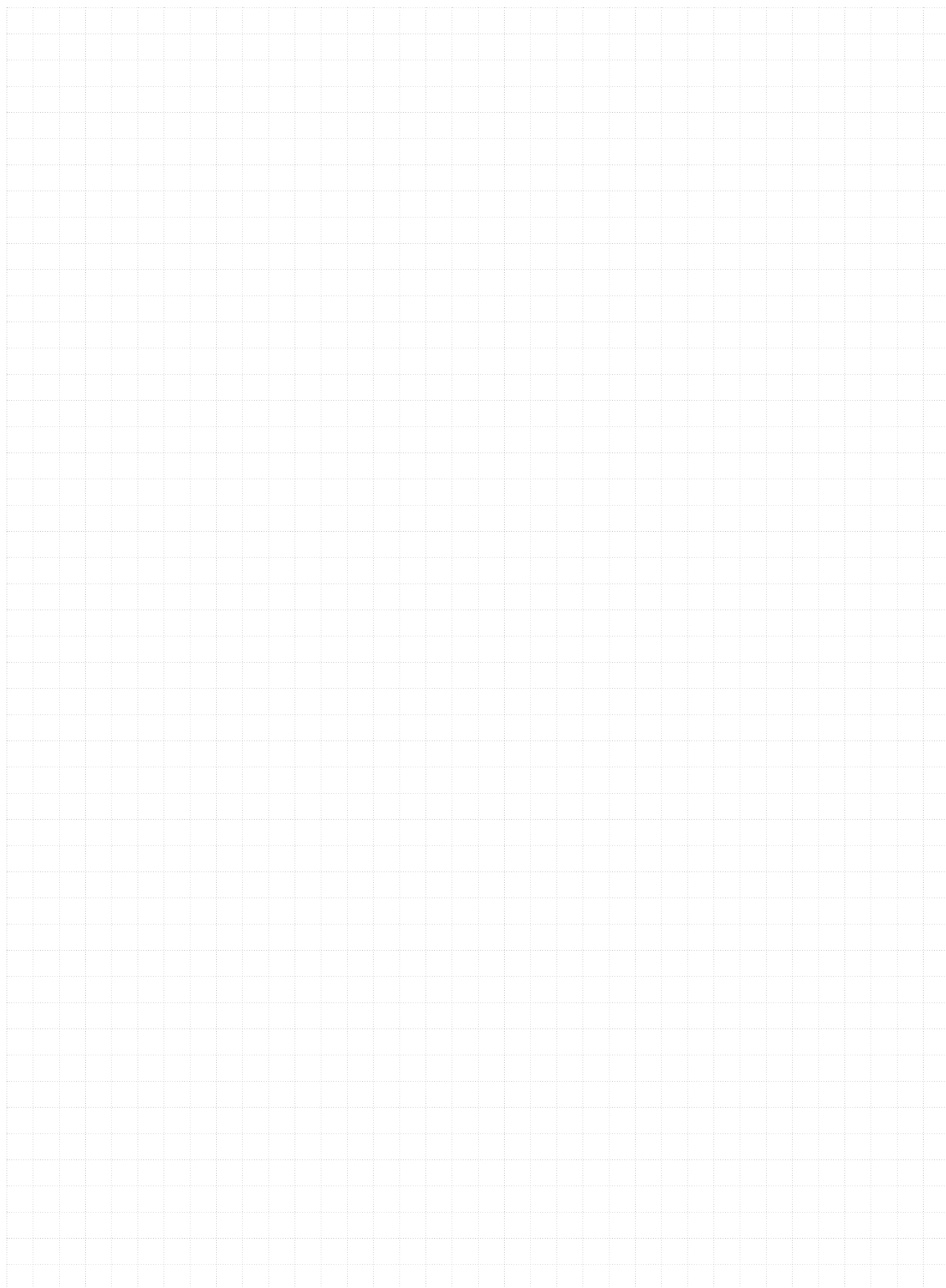
Applications	container size	0.001 to 1.000 l	0.001 to 3.000 l	0.01 to 120 l	0.01 to 5 l	0.01 to 1 l	0.01 to 60 l	0.01 to 30 l
	type of contents	cosmetic preparations, foodstuffs and chemicals	see LDPE, aromatic hydrocarbons, oils, fats	cosmetic preparations, foodstuffs and chemicals	wash polish, petrol, oils, fats, shoe cream, cosmetic preparations, foodstuffs	cosmetic preparations, foodstuffs	petrol, oils, fats, stain remover (tri, tetra)	cosmetic preparations, foodstuffs
	transformation of contents	none caused by the material itself, possibly due to diffusion			-	-	drying out without becoming moist due to diffusion of water	none caused by material itself, possibly due to diffusion
	printing-options	Screen printing	Screen printing	Screen printing	Screen printing	Screen printing	Screen printing	Screen printing
	engraving suitability	good	good	very good	vulnerable to cracking around sharp edges	vulnerable to cracking around sharp edges	vulnerable to cracking around sharp edges	vulnerable to cracking around sharp edges
	operational temperature	-40 °C to 95 °C	-40 °C to 110 °C	0 °C to 130 °C	-30 °C to 70 °C	0 °C to 65 °C	0 °C to 80 °C	-40 °C to 115 °C





## YOUR NOTES AND IDEAS

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