KAUTEX
A Textron Company

Kautex Packaging

Bottles and Containers made of Plastic

Dear Reader, dear valued customer,

we are proud to present you our new catalogue **„KAUTEX PACKAGING - Bottles and Containers made of Plastic“**.

The catalogue has been given a completely new structure to give a better overview, so that the products you are looking for from our extensive delivery program can be found even quicker.

You can trust the traditional brand name „KAUTEX“ with a long tradition of high quality - and, in case you are not yet one of our customers - try us out!

Good products are continued and complemented, as well as modernised and improved further.

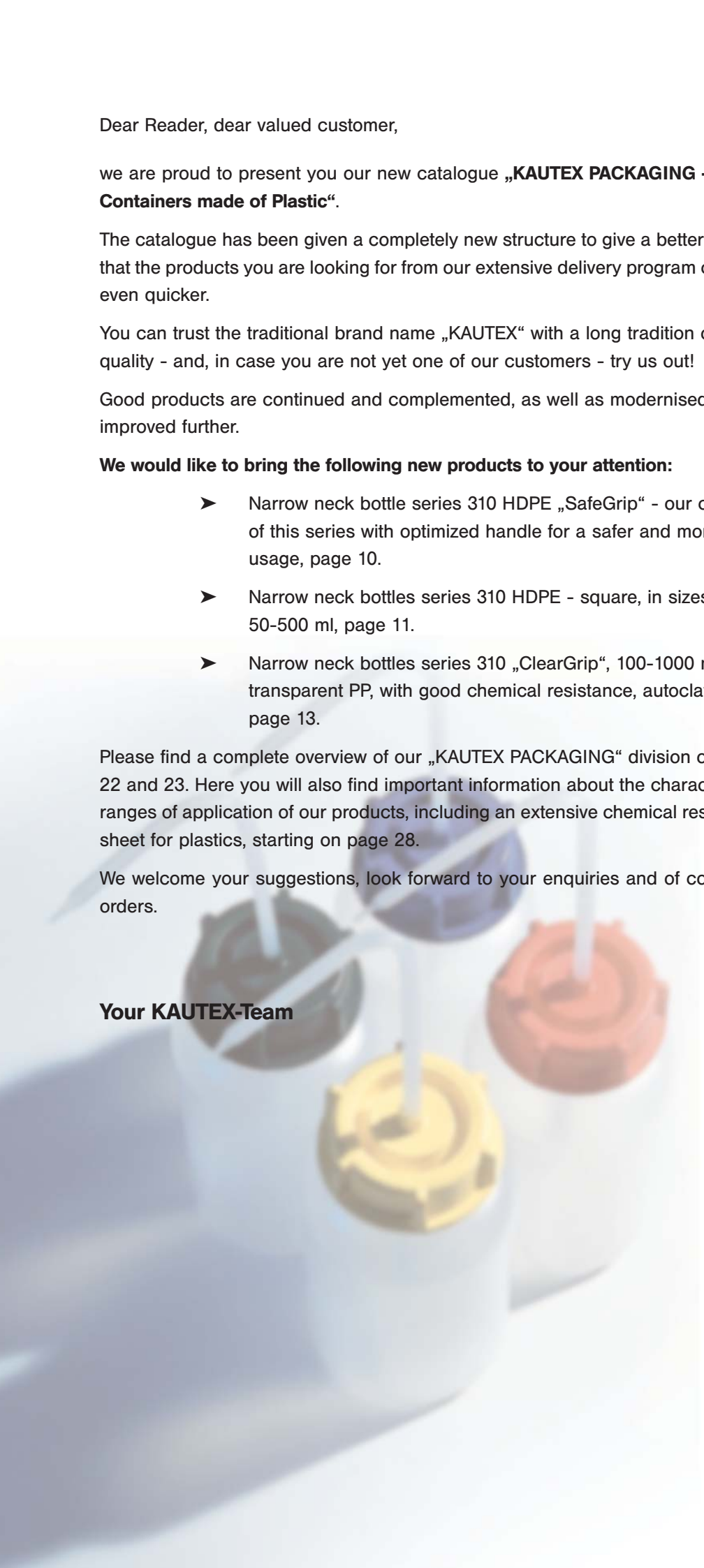
We would like to bring the following new products to your attention:

- Narrow neck bottle series 310 HDPE „SafeGrip“ - our classic bottle of this series with optimized handle for a safer and more practical usage, page 10.
- Narrow neck bottles series 310 HDPE - square, in sizes from 50-500 ml, page 11.
- Narrow neck bottles series 310 „ClearGrip“, 100-1000 ml, in highly transparent PP, with good chemical resistance, autoclavable, page 13.

Please find a complete overview of our „KAUTEX PACKAGING“ division on pages 22 and 23. Here you will also find important information about the characteristics and ranges of application of our products, including an extensive chemical resistance data sheet for plastics, starting on page 28.

We welcome your suggestions, look forward to your enquiries and of course to your orders.

Your KAUTEX-Team



Contents

Products

General Information

Narrow neck bottles series 301 LDPE - round, natural colour, with closure

Flexible, squeezable, with good shape-retaining properties, leakproof.

Also available with dropper cap or wash bottle closure.

Application:

✶ dispensing ✶ adhesives ✶ sending samples
✶ transport ✶ storage

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.

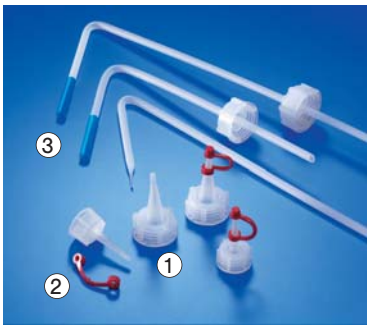
- ✶ one article number for bottle and closure
- ✶ better and clearer handling of the ordered goods
- ✶ dust-free and undamaged packaging
- ✶ easier and quicker to commission bottles and closures
- ✶ the end-user receives original packed merchandise

Nominal capacity ml	A mm	B mm	C mm	D mm	Mould no.	No. per case* pcs.	No. per packg. pcs.	Order no.
10	26	9,2	14	46,5	301-10	3200	100	**301-770500**
20	31,5	9,2	14	56,5	301-20	1800	100	**301-770501**
30	33,5	9,2	14	68,5	301-30	1400	100	**301-770502**
50	37,5	12,9	18	86	301-50	850	50	**301-770503**
100	47	12,9	18	105	301-100	480	20	**301-770504**
200	57,5	12,9	18	133	301-200	300	10	**301-770505**
250	61,3	19	25	140	301-250	210	10	**301-770506**
500	75	19	25	177	301-500	120	10	**301-770507**
1000	97,5	21,5	28	223,5	301-1000	56	4	**301-770508**
2000	120	21,5	28	264	301-2000	30	-	**301-770509**
3000	138	23,8	32	300	301-3000	20	-	**301-770510**
5000	162	30,8	40	355	301-5000	10	-	**301-70511**

* Packaging unit / minimum ordering quantity

Packaging concept:

up to 100 ml: Closures are packed in a polybag which is included in the bottles polybag.
ab 200 ml: Bottles are stretched in foil, corresponding number of closures in a separate polybag in the box.
ab 2000 ml: Bottles packed loosely in the box with screwed-on closures.



①	**Dropper cap** with nozzle, natural colour
②	**Captive cap PVC,** red
③	**Wash bottle closure LDPE,** natural colour
④	**Screw closure LDPE,** natural colour (substitute, without picture)

Closures					
for bottle Nom. cap. ml	C mm	① Order no.	② Order no.	③ Order no.	④ Order no.
10/20/30	14	**455-72102**	**419-73350**	-	**401-70603**
50	18	**455-72101**	**419-73350**	-	**401-70604**
100	18	**455-72101**	**419-73350**	**409-75991**	**401-70604**
200	18	**455-72101**	**419-73350**	**409-75992**	**401-70604**
250	25	**455-72100**	**419-73350**	**409-70618**	**401-70605**
500	25	**455-72100**	**419-73350**	**409-75993**	**401-70605**
1000	28	**455-72103**	**406-72103**	**409-70619**	**401-70606**
2000	28	**455-72103**	**406-72103**	**409-75994**	**401-70606**
3000	32	-	-	-	**401-70607**

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

Wide neck bottles series 303 LDPE - round, natural colour, with closure

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

Ideal for liquids, pastes and granulates.

Application:

✶ dispensing ✶ sending samples ✶ adhesives

✶ transport ✶ storage

Nominal capacity ml	A mm	B mm	C mm	D mm	Mould no.	No. per case* pcs.	No. per packg. pcs.	Order no.
50	39	23,8	32	76	303-50	650	50	**303-770528**
100	48	23,8	32	93,5	303-100	480	20	**303-770529**
200	59	30,8	40	114	303-200	300	10	**303-770530**
250	64	30,8	40	120	303-250	260	10	**303-770531**
300	67,5	30,8	40	128	303-300	180	10	**303-770532**
500	77	39,2	50	154	303-500	130	10	**303-770533**
750	88	39,2	50	173	303-750	90	5	**303-770534**
1000	95	50	65	205	303-1000	56	4	**303-770535**
1500	108	50	65	226	303-1500	40	4	**303-770536**
2000	120	50	65	247	303-2000	33	-	**303-770537**

* Packaging unit / minimum ordering quantity

Screw closure LDPE (substitute)

for bottle Nom. cap. ml	C mm	Order no.
50/100	32	**401-70607**
200/250/300	40	**401-70608**
500/750	50	**401-70609**
1000/1500/2000	65	**401-70610**

Wide neck bottles series 303 PP - round, natural colour, with graduation, with closure

Autoclavable up to 121° C.

Ideal for pastes, granulates and hot filled products.

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

Application:

✶ dispensing ✶ sending samples ✶ mailing

✶ transport ✶ storage

Nominal capacity ml	A mm	B mm	C mm	D mm	Mould no.	No. per case* pcs.	No. per packg. pcs.	Order no.
100	48,5	24,3	32	94	303-100	480	20	**303-783856**
250	64,5	30,9	40	121	303-250	260	10	**303-783859**
500	77,5	39,9	50	155	303-500	130	10	**303-783852**
1000	96	50,8	65	205	303-1000	56	4	**303-783855**

* Packaging unit / minimum ordering quantity

Screw closure PP (substitute)

for bottle Nom. cap. ml	C mm	Order no.
100	32	**401-83789**
250	40	**401-83792**
500	50	**401-83791**
1000	65	**401-83790**

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

Wide neck wash bottles series 303 LDPE - round, natural colour, printed-on hazard-symbols

Laboratory safety wash bottles with printed-on hazard symbols and substances of content in German, English and French language, leakproof.

Abrasion-resistant printing.

Completely emptied by sliding delivery tube, even when inverted.

Application:

✶ The delivery nozzle is designed to give an accurate fine controlled stream of liquid.

Safety:

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

Tip with safety tubing.

Nom. cap. ml	A mm	B mm	C mm	D mm	Mould no.	No. per case* pcs.	No. per packg. pcs.	Order no.
ACETON, ACETONE, with included wash bottle closure LDPE, cap red								
250	64	30,8	40	120	303-250	150	10	**303-770020**
500	77	39,2	50	154	303-500	100	10	**303-770025**
ETHANOL, with included wash bottle closure LDPE, cap green								
250	64	30,8	40	120	303-250	150	10	**303-770016**
500	77	39,2	50	154	303-500	100	10	**303-770021**
ISOPROPANOL, 2-PROPANOL, with included wash bottle closure LDPE, cap yellow								
250	64	30,8	40	120	303-250	150	10	**303-770017**
500	77	39,2	50	154	303-500	100	10	**303-770022**
METHANOL, with included wash bottle closure LDPE, cap orange								
250	64	30,8	40	120	303-250	150	10	**303-770018**
500	77	39,2	50	154	303-500	100	10	**303-770023**
DESTILLIERTES WASSER, DISTILLED WATER, EAU DESTILLE, with included wash bottle closure LDPE, cap blue								
250	64	30,8	40	120	303-250	150	10	**303-770019**
500	77	39,2	50	154	303-500	100	10	**303-770024**

* Packaging unit / minimum ordering quantity

Delivery tube natural colour with coloured cap

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

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

Wide neck bottles series 303 LDPE - round, brown colour, with closure

Helps to protect light sensitive materials against UV-light-transmission.

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

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

Application:

✶ dispensing ✶ sending samples ✶ mailing

✶ transport ✶ storage

Nominal capacity ml	A mm	B mm	C mm	D mm	Mould no.	No. per case* pcs.	No. per packg. pcs.	Order no.
50	39	23,8	32	76	303-50	650	50	303-784583
100	48	23,8	32	93,5	303-100	480	20	303-784584
250	64	30,8	40	120	303-250	260	10	303-784585
500	77	39,2	50	154	303-500	130	10	303-784586
1000	95	50	65	205	303-1000	56	4	303-784587

* Packaging unit / minimum ordering quantity

Screw closure LDPE, brown (substitute)

for bottle Nom. cap. ml	C mm	Order no.
50/100	32	401-84579
250	40	401-84578
500	50	401-84577
1000	65	401-84576

Medium neck bottle series 307 HDPE - round, natural colour, with graduation, with closure

Multi-purpose bottles for laboratories and industry.

Good chemical resistance.

Stamped contents scale.

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

PP screw closure.

Application:

✶ dispensing ✶ sending samples ✶ mailing

✶ transport ✶ storage

Nominal capacity ml	A mm	B mm	C mm	D mm	Mould no.	No. per case* pcs.	No. per packg. pcs.	Order no.
100	46	19	25	99,5	307-100	480	20	307-770066
250	61	24	28	129,5	307-250	250	10	307-770067
500	77	30,8	40	161	307-500	140	10	307-770070
1000	97	39,2	50	203	307-1000	64	4	307-770073

* Packaging unit / minimum ordering quantity

Screw closure PP, natural colour (substitute)

for bottle Nom. cap. ml	C mm	Order no.
100	25	401-84398
250	28	401-84542
500	40	401-83792
1000	50	401-83791

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

High shoulder bottles series 302 LDPE - round, natural colour

High narrow shape, leakproof.

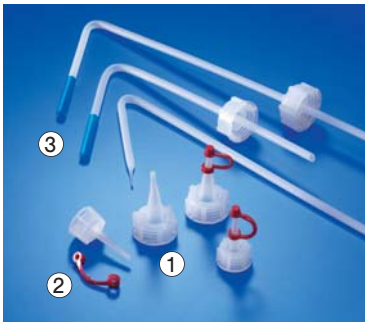
Easy handling.

Also available with dropper cap or wash bottle closure.

Application:

✶ dispensing ✶ adhesives ✶ sending samples

✶ transport ✶ storage



Nominal capacity ml	A mm	B mm	C mm	D mm	Mould no.	No. per case* pcs.	No. per packg. pcs.	Order no.
50	36,5	12,9	18	82	302-50	900	150	**302-70512**
100	44,5	12,9	18	98,5	302-100	420	70	**302-70513**
250	60	19	25	127,5	302-250	264	-	**302-70514**
500	75,5	19	25	160	302-500	124	-	**302-70515**
1000	95	21,5	28	196	302-1000	72	-	**302-70517**

* Packaging unit / minimum ordering quantity

①	**Dropper closure LDPE,** with nozzle, natural colour
②	**Captive cap PVC,** red
③	**Wash bottle closure LDPE,** natural colour
④	**Screw closure LDPE,** natural colour (without picture)

Closures					
for bottle Nom. cap. ml	C mm	① Order no.	② Order no.	③ Order no.	④ Order no.
50	18	**455-72101**	**419-73350**	**-**	**401-70604**
100	18	**455-72101**	**419-73350**	**409-75991**	**401-70604**
250	25	**455-72100**	**419-73350**	**409-70618**	**401-70605**
500	25	**455-72100**	**419-73350**	**409-75993**	**401-70605**
1000	28	**455-72103**	**419-73350**	**409-70619**	**401-70606**

Round bottle series 308 HDPE - natural colour

Hinged lid closure, for single-handed use.

PP screw closure.

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

Application:

✶ packaging ✶ storage ✶ transport

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

Round bottles series 308 HDPE - natural colour

Round bottles series 308 HDPE, natural colour								
Nominal capacity ml	A mm	B mm	C mm	D mm	Mould no.	No. per case* pcs.	No. per packg. pcs.	Order no.
50	32	17	22	86	308-239	900	150	308-76399
100	41	17	22	108,5	308-142	792	-	308-73084
250	56	17	22	135,5	308-143	324	-	308-73085
500	70	19,4	25	173	308-144	148	-	308-73086
1000	89	19,4	25	211,5	308-145	72	-	308-73087

* Packaging unit / minimum ordering quantity

Closures			
for bottle Nom. cap. ml	C mm	① Order no.	② Order no.
50/100/250	22	805-73182	805-73090
500/1000	25	805-73089	805-73091

Hinged closure PP, white

Closure with lip seal PP, white

Dropping bottles series 302 HDPE - round, natural colour

Bottle with dropping tip and separate srew closure. After beeing cut off the dropping tip can be resealed and does not leak.

Stable and handy shape.

Suitable for adhesives and many other products.

Application:

✶ packaging ✶ dispensing ✶ dropping

Nominal capacity ml	A mm	B mm	C mm	D mm	Mould no.	No. per case* pcs.	No. per packg. pcs.	Order no.
10	24	12,7	18	50	302-21A	4000	100	302-99529
25	31,3	12,7	18	64,5	302-16E	2000	100	302-92676
50	40	12,7	18	77	302-12D	1100	100	302-81015

* Packaging unit / minimum ordering quantity

Combination closure HDPE, with screw-on dropping tip		
for bottle Nom. cap. ml	C mm	Order no.
10/25/50		805-83700

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

Narrow neck bottles series 310 HDPE - square, natural colour and white

Square cross-section.

Recessed labelling field.

Four different types of closures available.

Ideal for liquids, leakproof.

Application:

✶ packaging ✶ sending samples

✶ transport ✶ storage

Narrow neck bottles series 310 HDPE, natural colour and white

Nominal capacity ml	A mm	B mm	C mm	D mm	Mould no.	No. per case* pcs.	Order no. natural col.	Order no. white
100	45 x 45	17	32	108	310-53 A	544	**310-83970**	**310-84000**
250	60 x 60	17	32	136	310-54 A	247	**310-83971**	**310-83994**
500	74 x 74	17	32	170	310-55 A	122	**310-83972**	**310-83991**
1000	85 x 85	17	32	221	310-56 A	72	**310-83973**	**310-83992**
2500	122 x 122	28	45	272	310-57 E	27	**310-71149**	**310-82553**

* Packaging unit / minimum ordering quantity

Screw closures PP

①	**red,** with pull-off ring and PE-foam insert
②	**blue,** with pull-off ring and conical seal
③	**white/blue,** child-resistant, with tamper evident ring and conical seal
④	**white/red,** child-resistant, with tamper evident ring, conical seal and degassing membrane
⑤	**Degassing closure, red,** with tamper evident ring and venting liner (without picture)

Screw closures PP

for bottle Nom. cap. ml	C mm	① Order no.	② Order no.	③ Order no.	④ Order no.	⑤ Order no.
10 - 1000	32	**805-84006**	**805-83951**	**805-84200**	**805-84201**	**805-85590**
2500	45	**805-84005**	**805-76305**	-	-	-

A = Dimension cross section body B = Neck i.d. C = Cap size o.d. D = Height without closure

UN-Wide neck bottles series 310 HDPE - square, natural colour and white

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

Square cross-section.

Recessed labelling field.

Three different types of closures available.

Ideal for liquids, pastes and granulates.

Application:

✶ packaging ✶ sending samples

✶ transport ✶ storage

Available ex stock with UN approval for solids. The approvals are only valid with the closures offered here.

UN approved for solids

Wide neck bottles series 310 HDPE, natural colour and white

Nominal capacity ml	A mm	B mm	C mm	D mm	Mould no.	No. per case* pcs.	UN approval	Order no. natural col.	Order no. white
50	36 x 36	21,4	28	88,5	310-115	700	-	**310-76398**	**310-84193**
100	45 x 45	24	32	101	310-88	612	UN 3H1/X0.3/S	**310-73094**	**310-79206**
250	59 x 59	35	45	129,5	310-86	273	UN 3H1/X0.8/S	**310-73095**	**310-79207**
350	60 x 60	35	45	164	310-46	190	-	**310-71138**	-
500	75 x 75	42,5	54	162	310-89	124	UN 3H1/X1.5/S	**310-73096**	**310-79209**
750	83 x 83	42,5	54	188	310-48	90	UN 3H1/X2.5/S	**310-71140**	**310-79210**
1000	85 x 85	42,5	54	214	310-85	81	UN 3H1/X2.5/S	**310-73097**	**310-79211**
1500	108 x 108	68,5	80	209	310-93	42	UN 3H1/X4/S	**310-73624**	**310-79212**
2500	122 x 122	68,5	80	260	310-51	27	UN 3H1/X5/S	**310-71143**	**310-79213**
4000	142 x 142	68,5	80	294	310-52	15	UN 3H1/X5.5/S	**310-71144**	**310-79214**

* Packaging unit / minimum ordering quantity

①	**Screw closure PP, black,** with PE-foam insert
②	**Screw closure PP, blue,** with tamper evident ring and conical seal
③	**Screw closure PP, red,** with tamper evident ring and PE-foam insert
④	**Wrench:** A tool suitable for all sizes of closures **Order no. 805-85102**

for bottle Nom. cap. ml	C mm	① Order no.	② Order no.	③ Order no.
50	28	**805-71150**	**805-976304**	**805-84198**
100	32	**805-971152**	**805-73826**	**805-83761**
250/350	45	**805-971153**	**805-76306**	**805-83783**
500/750/1000	54	**805-971898**	**805-73199**	**805-83691**
1500/2500/4000	80	**805-971155**	**805-73775**	**805-83762**

A = Dimension cross section body B = Neck i.d. C = Cap size o.d. D = Height without closure

UN Narrow neck bottles series 308/310 HDPE - natural colour and black

Narrow neck bottles with UN approval.

Particularly suitable for filling and transport of hazardous liquids.

Recessed labelling field with sizes 1000 and 2500 ml.

Three different types of closures available.

Application:

✶ packaging ✶ sending samples
✶ mailing ✶ storage

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

Nominal capacity ml	A mm	B mm	C mm	D mm	Weight g	Mould no.	No. per case* pcs.	UN approval	Order no. natural col.	Order no. black
500	77 x 77	28,7	45	176,5	52	308-257	120	UN 1H1/X1.9/250	**308-84464**	**308-770096**
1000	96 x 96	28,7	45	211,8	92	310-135	64	UN 3H1/X1.9/250	**310-84152**	**310-770097**
2500	127 x 127	28,7	45	282	167	310-136	26	UN 3H1/X1.9/250	**310-84153**	**310-84486**

* 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.

Application:

✶ packaging ✶ sending samples ✶ transport
✶ mailing ✶ storage

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. per case* pcs.	UN approval	Order no. natural col.	Order no. black
2500	127 x 127	28,7	45	294	190	310-137	25	UN 3H1/X1.9/250	**310-85405**	**310-85681**

* Packaging unit / minimum ordering quantity

Please note: **The approvals can be requested here: Sales.STVP@kautex.textron.com. The approvals are only valid with the closures offered here on the next page.**

A = Dimension cross section body B = Neck i.d. C = Cap size o.d. D = Height without closure

Closures for narrow neck bottles series 308/310 HDPE and „SafeGrip“ 2500 ml

Closures for narrow neck bottles series 308/310 HDPE and narrow neck bottle series 310 «SafeGrip» 2500 ml

for bottle Nom. cap. ml	C mm	① Order no.	② Order no.	③ Order no.
500 - 2500	45	805-84183	805-84162	805-84182

①	**Screw closure HDPE, black,** with tamper evident ring and PTFE cup seal
②	**Blister closure PP, black,** with tamper evident ring PP, red, with PTFE cup seal
③	**Blister closure PP, red,** with tamper evident ring PP, red, with venting system and perforated PTFEseal

Narrow neck bottles „SafeGrip“ series 310 HDPE - natural colour

Square shape for safe and comfortable handling.

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

Application:

✶ packaging ✶ sending samples

✶ mailing ✶ storage ✶ transport

Narrow neck bottles “SafeGrip” series 310 HDPE, natural colour

Nominal capacity ml	A mm	B mm	C mm	D mm	Mould no.	No. per case* pcs.	Order no.
50	40 x 40	18,6	32	79	310-143	850	310-85939
100	46 x 46	18,6	32	108	310-144	450	310-85938
250	60 x 60	18,6	32	136	310-145	234	310-85939
500	75 x 75	18,6	32	169	310-146	150	310-85940

* Packaging unit / minimum ordering quantity

Screw closure PP, blue, with PTFE-insert and tamper evident ring

for bottle Nom. cap. ml	C mm	Order no.
50 - 500	32	805-85941

A = Dimension cross section body B = Neck i.d. C = Cap size o.d. D = Height without closure

Narrow neck bottles series 310 PVC - rectangular, transparent

Crystal clear presentation for your product.

Ripped sides for secure grip.

Leakproof.

Application:

✶ packaging ✶ sending samples

✶ storage ✶ mailing

Nominal capacity ml	A mm	B mm	C mm	D mm	Mould no.	No. per case* pcs.	Order no.
250	59 x 38	19,9	25	151,5	310-63	390	310-71490
500	70 x 50	19,9	25	189	310-19	194	310-71106
1000	87,5 x 61,0	19,9	25	233	310-20	106	310-71107

* Packaging unit / minimum ordering quantity

Closures			
for bottle Nom. cap. ml	C mm	① Order no.	② Order no.
250 - 1000	25	805-71704	805-74185

①	**Compression moulded closure, melamine,** white
②	**Screw closure PP,** with nozzle, white

Narrow neck bottles series 310 HDPE - rectangular, natural colour

Ribbed sides for secure grip.

High stability.

Leakproof.

Four different types of closures (can also be used with wash bottle closure, see page 2).

Application:

✶ packaging ✶ dispensing

✶ storage ✶ mailing

Nom. cap. ml	A mm	B mm	C mm	D mm	Mould no.	No. per case* pcs.	No. per packg. pcs.	Order no.
100	40,5 x 32,0	12,9	18	110,5	310-100	648	108	310-70520
250	53,5 x 42,5	19	25	148	310-250	381	-	310-70521
500	63,5 x 54,5	19	25	180	310-500	205	-	310-70522
1000	84 x 66	19	25	222,5	310-1000	108	-	310-70523

* Packaging unit / minimum ordering quantity

①	**Screw closure LDPE,** natural colour
②	**Compression moulded cap, melamine,** black
③	**Dropper cap LDPE,** natural colour, with nozzle
④	**Captive cap PVC, red**

Closures			
for bottle Nom. cap. ml	C mm	① Order no.	② Order no.
100	18	401-70604	805-71159
250 - 1000	25	401-70605	805-71160
for bottle Nom. cap. ml	C mm	③ Order no.	④ Order no.
100	18	455-72101	419-73350
250 - 1000	25	455-72100	419-73350

A = Dimension cross section body B = Neck i.d. C = Cap size o.d. D = Height without closure

Narrow neck bottles series 310 „ClearGrip“ - made of highly transparent PP

Glass-like transparency & glaze (ideal for product presentations).

Low weight, outstanding chemical resistance and thermal stability, balanced stiffness and impact resistance, autoclavable up to 121°C.

Low carbon footprint, easily recycable.

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

Application:

✶ packaging ✶ sending samples

✶ presentation ✶ transport

Narrow neck bottles series 310, made of highly transparent PP

Nominal capacity ml	A mm	B mm	C mm	D mm	Mould no.	No. per case* pcs.	Order no.
100	46 X 46	18,6	32	108	310 148	512	310-86456
250	60 X 60	18,6	32	136	310 149	247	310-86457
500	75 X 75	28,6	45	169	310 150	132	310-86458
1000	94 X 94	28,6	45	204	310 151	64	310-86459

Verschluss PP, weiß, mit PTFE-Einlage und Originalitätsring

for bottle Nominal capacity ml	C mm	Mould no.	No. per case*/pcs.	Order no.
100 - 250	32	805 397	1200	805-86336
500 - 1000	45	805 316	550	805-86356

* Packaging unit / minimum ordering quantity

Wide neck bottles series 310 HDPE - square, natural colour

The wide neck means easy filling, emptying and cleaning.

Ribbed sides for a secure grip.

Square labelling field.

Square shape for an optimal space utilisation.

Application:

✶ packaging ✶ storage

✶ transport

Nominal capacity ml	A mm	B mm	C mm	D mm	Mould no.	No. per case* pcs.	Order no.
250	59 x 59	30,8	40	110,5	310W-250	294	310-70538
500	69 x 69	30,8	40	145,5	310W-500	164	310-70539
1000	86,5 x 86,5	39,2	50	178,5	310W-1000	90	310-70540

* Packaging unit / minimum ordering quantity

Screw closure LDPE, natural colour

for bottle Nom. cap. ml	C mm	Order no.
250/500	40	401-70608
1000	50	401-70609

A = Dimension cross section body B = Neck i.d. C = Cap size o.d. D = Height without closure

Wide neck containers series 310 PVC - square, transparent and brown-transparent

Chrystal-clear for an excellent product presentation.

Brown-transparent for light-sensitive media.

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

Black closure with PE-foam insert, leakproof.

Application:

✶ Packaging ✶ dispensing ✶ sending samples

✶ storage ✶ Mailing

Wide neck containers series 310 PVC, transparent and brown-transparent

Nominal capacity ml	A mm	B mm	C mm	D mm	Mould no.	No. per case* pcs.	No. per packg. pcs.	Order no. transparent	Order no. brown-transparent
50	38,5 x 38,5	23	32	59	310-26	972	162	**310-70595**	**310-70697**
100	46 x 46	31	40	71	310-27	480	80	**310-70596**	**310-70698**
200	59,5 x 59,5	41	50	87	310-28	406	-	**310-70597**	**310-70699**
300	67,5 x 67,5	41	50	94	310-42	300	-	**310-71080**	**310-71081**
500	80,5 x 80,5	54	65	108	310-31	162	-	**310-70598**	**310-70700**
750	91,5 x 91,5	69	80	120	310-43	114	-	**310-71082**	**310-71083**
1000	97 x 97	69	80	143	310-32	96	-	**310-70599**	**310-70701**
2000	122 x 122	69	80	187	310-94A	44	-	**310-73352**	**310-73353**

* Packaging unit / minimum ordering quantity

Wide neck containers series 310 PETG - square, transparent

Crystal-clear for an excellent product presentation.

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

Black closure with PE-foam insert, leakproof.

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

Application:

✶ packaging ✶ dispensing ✶ sending samples

✶ storage ✶ mailing

You can find the closures for the containers shown here on the next page at the top.

Nominal capacity ml	A mm	B mm	C mm	D mm	Mould no.	No. per case* pcs.	No. per packg. pcs.	Order no.
50	38,5 x 38,5	23	32	60,5	310-26	972	162	**310-74371**
100	46 x 46	31	40	71	310-27	480	80	**310-74372**
200	59,5 x 59,5	41	50	88	310-28	406	-	**310-74373**
500	80,5 x 80,5	54	65	108	310-31	162	-	**310-74374**
1000	97 x 97	69	80	143	310-32	96	-	**310-74375**
2000	122 x 122	69	80	187	310-94A	44	-	**310-84404**

* Packaging unit / minimum ordering quantity

A = Dimension cross section body B = Neck i.d. C = Cap size o.d. D = Height without closure

Closures for wide neck containers series 310 PVC and PETG

Screw closure PP, black, with PE-foam insert

for bottle Nom. cap. ml	C mm	Order no.
50	32	805-70750
100	40	805-70751
200/300	50	805-70752
500	65	805-70753
750/1000	80	805-70754
2000	80	805-70755

Wide neck containers series 310 PVC - square, transparent and brown-transparent

Chrystal-clear for an excellent product presentation.

Brown-transparent 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.

Application:

✶ packaging ✶ dispensing ✶ sending samples

✶ storage ✶ mailing

Wide neck containers series 310 PVC, transparent and brown-transparent

Nominal capacity ml	A mm	B mm	C mm	D mm	Mould no.	No. per case* pcs.	No. per packg. pcs.	Order no. transparent	Order no. brown-transparent
100	46 x 46	31	40	83,5	310-27B	480	80	310-84419	310-84593
200	59,5 x 59,5	41	50	98,5	310-28B	288	48	310-84412	310-84596
300	67,5 x 67,5	41	50	105,5	310-42B	288	-	310-84423	310-84601
500	80,5 x 80,5	54	65	118,5	310-31B	126	21	310-84422	310-84599

* Packaging unit / minimum ordering quantity

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

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

for bottle Nom. cap. ml	C mm	Order no.
100	40	805-84479
200/300	50	805-84480
500	65	805-84481

A = Dimension cross section body B = Neck i.d. C = Cap size o.d. D = Height without closure

Wide neck jars series 376 HDPE - round, natural colour

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.

PE-foam seal, with black closure, leakproof.

Application:

✶ packaging ✶ dispensing ✶ sending samples

✶ mailing ✶ storage

Nominal capacity ml	A mm	B mm	C mm	D mm	Mould no.	No. per case* pcs.	Order no.
100	48	31	40	77	376-34	720	376-71492
250	65	41	50	98	376-18	298	376-70541
500	80	53	65	122	376-12	162	376-70542
750	94	53	65	130	376-19	108	376-70543
1000	100	67	80	153	376-13	75	376-70544
1500	114	67	80	173	376-20	48	376-70545
2000	126	67	80	192	376-25	40	376-71066

* Packaging unit / minimum ordering quantity

Screw closure PP, black, with PE-foam insert

for bottle Nom. cap. ml	C mm	Order no.
100	40	805-70751
250	50	805-70752
500/750	65	805-70752
1000/1500/2000	80	805-70754

Wide neck jar series 376 PP/Wide neck containers series 310 HDPE

Wide neck jar PP:
Due to the wide neck opening the containers are easy to fill and to clean, leakproof.

Closure with tamper evident ring.

Wide neck container HDPE:
Easy handling due to the wide neck opening.

Black screw closure with PE-foam insert, leakproof.

Application:

✶ packaging ✶ dispensing ✶ sending samples

✶ mailing ✶ storage

Wide neck jar PP, round, transparent

Nominal capacity ml	A mm	B mm	C mm	D mm	Mould no.	No. per case* pcs	Order no.
250	70,5	54	65	81	376-78	270	376-84836

* Packaging unit / minimum ordering quantity

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

for bottle Nom. cap. ml	C mm	Order no.
250	65	805-84481

Wide neck container HDPE, square, natural colour

Nominal capacity ml	A mm	B mm	C mm	D mm	Mould no.	No. per case* pcs	No. per packg. pcs.	Order no.
100	46 x 46	31	40	72	310-121	500	80	310-82714

* Packaging unit / minimum ordering quantity

Screw closure HDPE, black, with PE-foam insert

for bottle Nom. cap. ml	C mm	Order no.
100	40	805-70751

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

Wide neck containers series 311 HDPE - square, natural colour, with moulded hand-grip

The square shape saves space. With moulded hand-grip for safe and convenient handling.

Ideal for collecting, storing and transporting solid chemicals.

Application:

✶ packaging ✶ dispensing ✶ sending samples
✶ mailing ✶ storage

Wide neck container series 311 HDPE, square, natural colour

Nominal capacity ml	A mm	B mm	C mm	D mm	Mould no.	No. per case* pcs.	Order no.
2300	135 x 135	68,5	80	188	311-13	36	**311-83981**

* Packaging unit / minimum ordering quantity

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

for bottle Nom. cap. ml	C mm	Order no.
2300	80	**805-73775**

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. per case* pcs.	Order no.
4400	142 x 142	109	120	263	311-03	52	**311-98311**

* Packaging unit / minimum ordering quantity

Multipurpose container series 357 HDPE - polygonal, natural colour, with screwed-on closure

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

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

Application:

✶ packaging ✶ dispensing ✶ sending samples ✶ mailing
✶ disposal ✶ collecting ✶ storage

Multipurpose container series 357 HDPE, polygonal, natural colour, with screw closure

Nominal capacity ml	A mm	B mm	C mm	D mm	Mould no.	No. per case* pcs.	Order no.
5000	190 x 180	108,5	120	230	357-5	14	**357-70546**
10000	230 x 222	108,5	120	303	357-10	6	**357-70547**

* Packaging unit / minimum ordering quantity

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

Buckets series 610/615 LDPE - with graduation

Industrial and laboratory buckets:
With and without spout. Plastic coated steel handle. Would you like them to be individually printed? Just contact us!

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.

Application:

✶ dispensing ✶ sending samples ✶ mixing

✶ transfering ✶ transport

Capacity litre	Diameter mm		Height mm	Mould no.	No. per case*/pcs.	Order no.
Nom. cap.	base	top	without handle			
with spout, white, with plastic-coated steel carrying handle						
10	193	280	300	610-10	10	**610-70588**
15	235	316	335	610-15	10	**610-70589**
without spout, white, with plastic-coated steel carrying handle						
10	212	253	279	615-10	10	**615-70585**
without spout, dark grey, with rustproof handle						
10	212	253	279	615-10B	10	**615-70587**

* Packaging unit / minimum ordering quantity

Trigger bottle series 322 HDPE - rectangular, white

Spraying with pistol grip.

You would like them to be printed individually?
Just contact us!

Application:

✶ packaging ✶ spraying

Nominal capacity ml	A mm	B mm	C mm	D mm	Mould no.	No. per case* pcs.	Order no.
500	93 x 45	21,8	28	242,5	322-291	130	**322-84592**

* Packaging unit / minimum ordering quantity

Trigger closure PP, white		
for bottle Nom. cap. ml	C mm	Order no.
500	28	**805-84627**

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

Oiler series 319 LDPE - rectangular, natural colour

Handy shape.

Easy to squeeze.

Ideal for lubricants, rust removers, etc.

Application

✶ packaging ✶ dispensing ✶ dropping

Nominal capacity ml	A mm	B mm	C mm	D mm	Mould no.	No. per case* pcs.	No. per packg. pcs.	Order no.
50	50 x 27	9,8	14	65,6	319-50A	1200	100	319-70578

* Packaging unit / minimum ordering quantity

Closure LDPE, natural colour, with tip	
for bottle Nom. cap. ml	Order no.
50	418-70723

Beaker PP - with handle

PP transparent, with graduation.

Capacity ml	Sub-division ml	Dimensions mm		No. per case* pcs.	Order no.
Größe		Diameter	Height		
500	50	90	135	16	817-70644
1000	50	117	170	12	817-70645
2000	100	155	205	12	817-70646
3000	100	173	230	10	817-85350

* Packaging unit / minimum ordering quantity

Funnel HDPE - natural colour

Handy and stable.

Diameter mm		No. per case* pcs.	Order no.
top	stem o.d.		
50	3	12	812-85349
60	8	12	809-70633
80	11	12	809-70634
100	12	12	809-70635
120	12	12	809-70636
164	17	12	809-70637
**208	20	10	810-70638

* Packaging unit / minimum ordering quantity ** with phosphor-bronce filter, diameter 50 mm

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

Carboy series 350 HDPE - natural colour, with blue litre-scale and screwed-on closure

Printed litre scale.

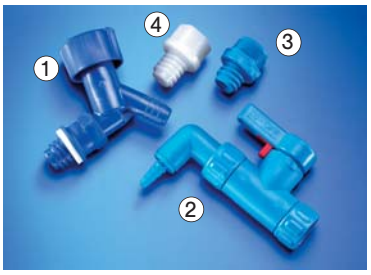
With and without threaded stopcock connection.

Two different types of stopcocks.

Application:

✶ storage ✶ transfer

✶ transport



Nominal capacity litre	A mm	B mm	D mm	Mould no.	No. per case* pcs.	Order no.
without stopcock connection						
5	167	50	330	350-5	11	**350-84131**
10	206	50	427	350-10	6	**350-84133**
25	278	50	580	350-25	5	**350-84135**
60	346	50	823	350-60	2	**350-84136**
with stopcock connection						
5	167	50	330	350-5Z	11	**350-84137**
10	206	50	427	350-10Z	6	**350-84132**
25	278	50	580	350-25Z	5	**350-84138**
60	346	50	823	350-60Z	2	**350-84139**

* Packaging unit / minimum ordering quantity

Accessories for carboys

Description	No.	Order no.
Stopcock HDPE, blue	1	**480-76459**
Stopcock PP, blue	2	**851-83794**
Adapter blue for 2	3	**851-83793**
Blank stopper HDPE, natural col.	4	**436-70625**

UN open top drum series 359 HDPE - round, blue, with lid and clamping ring

All sizes with UN approval.

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.

Application:

✶ storage ✶ transfer

✶ transport ✶ disposal

Nominal capacity litre	A mm	B mm	Height with closure mm	No. per case* pcs.	UN approval	Order no.
30	313	251	518	1	UN 1H2/X61/S	**359-90800**
60	398	325	620	1	UN 1H2/X88/S	**359-90867**
120	469	395	790	1	UN 1H2/X225/S	**359-91093**
150	504	395	965	1	UN 1H2/X240/S	**359-91098**

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

Jerrycans 2,5 to 5 and 10 to 30 l with UN approval.

Jerrycans 20, 25 and 30 l also available in blue colour.

Universal jerrycan for industry, trade and loboratories. The jerrycans with a comprehensive range of closure accessories can be used for almost any purpose.

Application:

✶ storage ✶ packaging ✶ transport

Industrial jerrycans series 353 HDPE, natural colour

Nominal capacity litre	A mm	B mm	C mm	D mm	Weight g	No. per case* pcs.	UN approval	Order no.
2	145 x 109	34,5	45	196	110	25	-	**353-95939**
2,5	153 x 115	34,5	45	208	125	25	UN 3H1/Y1.6/150	**353-95966**
3	153 x 115	34,5	45	240	140	25	UN 3H1/Y1.6/150	**353-96404**
5	190 x 145	40,5	50	251	250	16	UN 3H1/X1.9/250	**353-92562**
6	192 x 145	34,5	45	294	265	16	-	**353-95937**
8	230 x 190	34,5	45	270	320	10	-	**353-80289**
10	230 x 190	40,5	50	310	450	10	UN 3H1/X1.9/250	**353-95642**
20	290 x 246	48,5	60	385	950	6	UN 3H1/Y1.9/250	**353-96138**
30	320 x 284	48,5	60	435	1250	6	UN 3H1/X1.9/250	**353-95981**

* Packaging unit / minimum ordering quantity

Industrial jerrycans series 353 HDPE, blue colour

Nominal capacity litre	A mm	B mm	C mm	D mm	Weight g	No. per case* pcs.	UN approval	Order no.
20	290 x 246	48,5	60	385	950	6	UN 3H1/X1.9/250	**353-96232**
25	290 x 246	48,5	60	450	1100	6	UN 3H1/X1.9/250	**353-95776**
30	320 x 284	48,5	60	435	1250	6	UN 3H1/X1.9/250	**353-95982**

* Packaging unit / minimum ordering quantity

Closures and accessories

for jerrycan nom. cap. litre	① Order no.	② Order no.	③ Order no.	④ Order no.	⑤ Order no.	⑥ Order no.
2/2,5/3	**805-85883**	**805-85770**	**805-85771**	**805-95872**	**805-96921**	**805-90464**
5	**805-95912**	**805-95946**	**805-95901**	**805-90386**	**805-83882**	**805-90465**
6/8	**805-85883**	**805-85770**	**805-85771**	**805-95872**	**805-96921**	**805-90464**
10	**805-95912**	**805-95946**	**805-95901**	**805-90386**	**805-83882**	**805-90465**
20	**805-95898**	**805-95987**	**805-95984**	**805-90480**	**805-83884**	**805-90465**
25	**805-95898**	**805-95987**	**805-95984**	**805-90480**	**805-83885**	**805-90465**
30	**805-95898**	**805-95987**	**805-95984**	**805-90480**	**805-83886**	**805-90465**

① **Screw closure HDPE, black,** with tamper evident ring and venting system

② **Screw closure HDPE, black,** with tamper evident ring

③ **Screw closure HDPE, red,** with tamper evident ring

④ **Screw closure HDPE, natural colour,** with stop cock, red

⑤ **Screw closure HDPE, white,** with dispensing pump

⑥ **Wrench HDPE,** tool for opening and closing

A = Dimension cross section body B = Neck i.d. C = Cap size o.d. D = Height without closure

Know how and competence

KAUTEX Textron has been specialised in manufacturing extrusion-blown plastic containers for seven 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, pharmacy and cosmetics
- Many versions, sizes, materials, accessories
- For special applications also possible with barriers (coex, fluorination)
- Available ex stock

System Packaging

- Many different types and sizes of bottles from KAUTEX-own moulds
- The customer selects the type of bottle, the suitable closure, colour and decoration; no charge is to be made for the cost of moulds
- For special applications also possible with barriers (coex, selar)

Special Packaging

- Bottles and containers made of PE, PP, PVC and PETG; for special applications also available with barriers (coex, selar)
- The customer determines the design and pays for the mould; the products are supplied only to this customer
- If required, we offer decoration for the packaging: screen printing, therimage, film hot-stamping

for successful products

Large Packaging

- 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
- From stock or as a special design; if required with the necessary certifications

Plant Care Packaging

- Jerrycans for crop protection agents:
  2 l/2,3 l/3 l/5 l/10 l
- Bottles for crop protection agents:
  100 ml/ 200 ml/ 250 ml/ 500 ml/ 1 l
- Available with and without barrier (coex)

Technical Blowmoulding Parts

- Individual products like customer default, also as a system solution
- Parts for the sanitary industry, for example for cistern and hot water containers
- Water, oil and fuel tanks
- Air tubes, for example for the white goods industry

Raw materials

LDPE, HDPE, PP, hard **PVC** and **PETG** are physiologically inert and are suitable for the appropriate packaging and storage of foodstuffs. They fulfil the valid German regulations and the EG-Directive 90/ 128 together with the corresponding supplements EEC 92/ 39, 93/ 9 and 95/ 3.

This catalogue and included data sheets are intended to fully inform you. The information it contains is valid and in accordance with our experience and knowledge at the time of publication.

Testing the suitability of our products and the materials used in their manufacture for their intended use is the responsibility of our customers. This is the reason why it is not possible to derive a binding warranty for any particular properties or for the suitability of a product or material for a specific purpose from advice provided by us.

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 and most chemicals
- excellent water vapour resistance

High-density Polyethylen (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)

- physialogically 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) (Polyethylen Terphtalat Glycole)

- physiologically inert
- flexible and inherently stable
- high transparency (glass-clear), optically brilliant
- shatter-proof
- resistant to water, aqueous solutions, salts, aliphatic mediums, hydrocarbons und oils

		Low density Polyethylene LDPE	High density Polyethylene HDPE	Polypropylene PP	PVC rigid	Co-Polyester PETG	Polyamide	Polycarbonate
Physical properties of thermoplasics	**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	flexible/rigid
	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. 90	approx. 95	approx. 100	approx. 100	approx. 100	approx. 100	approx. 100
	tear strength at 20 °C	approx. 10 N/mm^2	approx. 20 N/mm^2	approx. 30 N/mm^2	approx. 50 N/mm^2	approx. 50 N/mm^2	approx. 45 N/mm^2	approx. 60 N/mm^2
	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 thermoplasics	**resistant against**	non oxidising alkalis, organic solvents, excl. chlorinated hydrocarbons; it is advisable to carry out storage tests for testing diffusion		see LDPE/HDPE	acids, alkalis, petrol, oil, fats, terpentine, alcohol	petrol, oils, fats, terpentine	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, chlorinatid hydrocarbons, hydrogene sulphide	esters, ketone, benzene, chlorinated hydrycarbons	acids, alkalis, alcohol, water	alkalis, strong acids, esters, ketone, benzene, chlorinated hydrocarbons
	This information only provides a general indication, storage tests are recommended.							
Applications	**container size**	0,001 to 1000 l	0,001 to 3000 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, shoecream, 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

Resistance: 1 = stable, 2 = conditionally stable, 3 = unstable

MEDIUM	CONC.	HDPE		LDPE		PETG		PP		PVC HARD	
		20°C	50°C	20°C	50°C	20°C	50°C	20°C	50°C	20°C	50°C
Acetaldehyde	40%	2	2	1	3	3	3	1	-	3	3
Acetaldehyde + acetic acid	90/10%	-	-	-	-	-	-	1	-	-	-
Acetic acid	10 %	1	1	1	1	1	1	1	1	1	2
Acetic acid	50 %	1	1	1	1	-	-	1	1	1	1
Acetic acid	5 %	1	1	1	2	1	1	1	1	1	1
Acetic acid (glacial acetic acid)	90%	1	1	1	1	3	3	1	1	1	1
Acetic acid ester	100 %	-	-	1	3	3	3	1	2	3	3
Acetone		1	1	2	2	3	3	1	2	3	3
Acetonenitrile		1	1	1	1	-	3	2	3	3	3
Acid, battery	38 %	1	1	1	1	3	3	1	1	1	2
Acrylic acid ethyl ester	100%	-	-	-	-	-	-	-	-	3	3
Adipic acid	saturated	1	1	1	1	-	-	1	1	1	2
Allyl alcohol	96 %	1	2	2	2	1	-	1	1	1	2
Alum		1	1	-	-	1	1	1	1	-	-
Aluminium chloride	10 %	1	1	1	1	1	1	1	1	1	1
Aluminium chloride	solid	1	1	1	1	-	-	1	1	-	-
Aluminium chloride	saturated	1	1	1	1	-	-	1	1	1	1
Aluminium chloride	aqueous	1	1	1	1	1	1	1	1	1	1
Aluminium nitrate	aqueous	1	1	1	-	1	1	1	1	1	-
Aluminium sulfate	10 %	1	1	1	1	1	1	1	1	1	1
Aluminium sulfate	saturated	1	1	1	1	-	-	1	1	1	1
Ammonia	25 %	1	1	1	1	1	3	1	1	1	1
Ammonia liquor	any	1	1	1	1	1	3	1	1	-	-
Ammonium chloride	aqueous	1	1	1	1	1	1	1	1	1	2
Ammonium fluoride	saturated	1	1	1	1	1	1	1	1	1	-
Ammonium fluoride	aqueous	1	1	1	1	1	1	1	1	-	-
Ammonium nitrate	10 %	1	2	-	-	1	1	1	1	1	2
Ammonium nitrate	saturated	1	2	1	1	1	1	1	1	1	1
Ammonium nitrate	aqueous	1	1	1	1	1	1	1	1	-	-
Ammonium sulfate	10 %	1	1	1	1	1	1	1	1	1	2
Ammonium sulfate	saturated	1	1	1	1	1	1	1	1	1	1
Ammonium sulfate	aqueous	1	1	1	1	1	1	1	1	-	-
Ammonium sulfide	any	1	1	1	1	-	-	1	1	1	2
Ammonium sulfide	aqueous	1	1	1	1	-	-	1	1	-	-
Amyl acetate (Pentylacetate)		1	1	1	2	1	2	2	3	3	3
Amyl alcohol		1	1	1	1	1	-	1	1	1	2
Aniline		1	1	1	2	-	-	1	2	3	3
Aniline chlorohydrate	saturated	1	2	-	-	-	-	1	2	1	-
Antifreeze (Ethyleneglycol)		1	1	1	1	1	-	1	1	-	-
Antimony trichloride	90 %	1	1	1	1	-	-	1	1	1	-
Aqua regia		3	3	3	3	3	3	3	3	3	3
Aromatic acid		1	1	-	-	-	-	-	-	-	-
Aromatic acids	0,5	1	1	1	1	-	-	-	-	-	-
Arsenic acid		1	1	-	1	-	-	1	1	1	2
Arsenic acid	aqueous	1	1	-	-	-	-	1	1	-	-
Arsenic acid hydride		1	1	1	1	-	-	1	1	-	-
Beer		1	1	1	1	1	-	1	1	1	1
Benzene		2	3	2	3	3	3	2	3	3	3
Benzoic acid	saturated	1	1	1	1	1	-	1	2	1	1
Benzoic acid	aqueous	1	1	1	1	1	-	1	2	-	-
Benzyl benzoate		-	-	-	-	-	-	2	3	-	-
Borax	any	1	1	1	1	1	1	1	1	1	2
Boric acid	10 %	1	1	1	1	1	-	1	1	1	2
Boric acid	aqueous	1	1	1	1	1	-	1	1	-	-
Brake fluid		1	1	1	-	-	-	1	1	1	-
Brake fluid DOT 3		-	-	-	-	1	1	-	-	-	-
Brandy		1	1	1	-	1	-	1	1	1	1
Brandy		-	-	-	-	-	-	-	-	1	-
Bromic vapours		3	3	3	3	3	3	3	3	-	-
Bromine		3	3	3	3	3	3	3	3	1	3
Butane	techn. pure	1	-	1	1	1	-	1	1	1	-
Butanol	techn. pure	1	1	1	2	1	-	1	1	1	2
Butinediol	10 %	1	1	1	1	1	-	1	1	1	-
Butyl acetate		1	1	1	2	2	-	2	3	3	3
Butyric acid		2	3	3	3	-	-	3	3	1	3
Calcium chloride	aqueous	1	1	1	1	1	-	1	1	1	2
Calcium hypochlorite	aqueous	-	-	-	-	2		-	1	1	-
Calcium hypochlorite	saturated	1		1	1	1	2	-	1	1	12
Calcium nitrate	50 %	1	1	1		1	1	1	1	1	1-
Calcium nitrate	aqueous	1	1	1	1	1	1	1	1	-	-
Carbon dioxide, dry	techn. pure	1	1	1	1	1	1	1	1	1	2
Carbon dioxide, umid	techn. pure	1	1	1	1	1	1	1	1	1	1
Carbon disulfide		3	3	3	3	-	-	3	3	3	3
Carbon tetrachloride		2	3	3	3	1	3	3	3	1	2
Carbonic acid	saturated	1	2	1	1	1	1	1	1	1	2
Caustic potash	30 %	1	1	1	1	3	3	1	1	1	2
Caustic potash	50 %	1	1	1	1	3	3	1	1	1	1
Caustic potash	aqueous	1	1	1	1	3	3	1	1	-	-
Caustic potash	10 %	1	1	1	1	3	3	1	1	-	-
Caustic potash	50 %	1	1	1	1	3	3	1	1	1	1
Caustic soda		1	1	1	1	3	3	1	1	-	-
Chloramine	diluted	1	-	1	-	-	-	2	3	-	-
Chloric methyl		-	-	-	-	-	-	3	3	-	-
Chlorinated water		2	-	-	3	3	3	1	3	2	2
Chlorine	10 % wet	2	3	2	3	3	3	3	3	1	1
Chlorine	97 %	3	3	3	3	3	3	3	3	3	3
Chlorine gas		-	-	-	-	3	3	3	3	-	-
Chloroacetic acid		-	-	-	-	3	3	1	1	-	-
Chloroacetic acid (mono)	50 %	1	2	1	2	3	3	1	1	1	-
Chloroacetic acid (mono)	techn. pure	1	1	1	1	3	3	1	1	2	3
Chlorobenzene		3	3	2	3	1	3	2	3	3	3
Chlorsulphonic acid	techn. pure	3	3	3	3	3	3	3	3	2	-
Chromic acid	10 %	1	1	1	1	2	-	1	1	1	1
Chromic acid	20 %	-	-	1	2	3	3	2	2	1	-
Chromic acid	50 %	2	3	2	3	3	2	1	2		
Chromic acid	aqueous	-	-	-	-	3	3	1	2	-	-

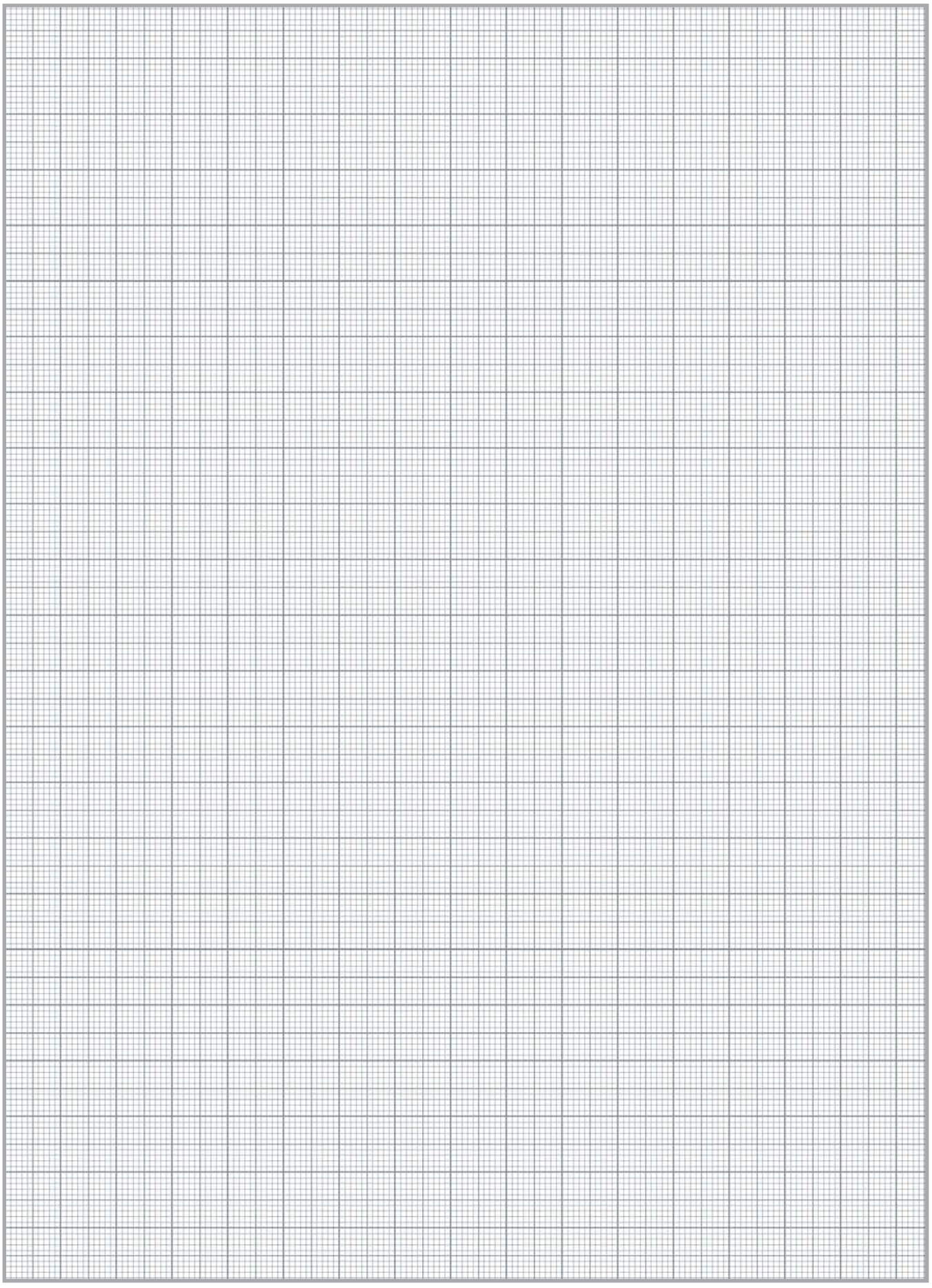
MEDIUM	CONC.	HDPE		LDPE		PETG		PP		PVC HARD	
		20°C	50°C	20°C	50°C	20°C	50°C	20°C	50°C	20°C	50°C
Chromic alum	saturated	1	1	-	-	1	1	1	1	1	1
Chromic sulphuric acid	pur	3	3	3	3	3	3	3	3	2	-
Citric acid	10 %	1	1	1	1	1	2	1	1	1	1
Citric acid	10 %	1	1	1	1	1	2	1	1	1	2
Citric acid	50 %	1	1	1	1	-	-	1	1	-	-
Citric acid	saturated	1	1	1	1	-	-	1	1	1	1
Citric acid	aqueous	1	1	1	1	-	-	1	1	-	-
Common salt		1	1	1	1	1	1	1	1	1	1
Common salt	aqueous	1	1	1	1	1	1	1	1	1	1
Copper sulphate	aqueous	1	1	1	1	1	1	1	1	-	-
Crude oil	100 %	-	-	1	2	1	-	1	2	1	-
Cyanogen potash	saturated	1	1	1	1	-	-	1	1	1	2
Cyclanone		1	1	1	1	1	1	1	1	-	-
Cyclohexane		2	2	2	3	1	-	2	3	1	2
Cyclohexanol	techn. pure	1	1	1	1	-	-	1	2	1	1
Cyclohexanone	techn. pure	1	2	2	3	3	3	1	3	3	3
Dekalin (Decahydronaphtalin)	100 %	1	2	2	3	2	-	2	3	1	1
Detergent solution		-	-	-	-	1	1	1	1	-	-
Dextrine		1	1	1	1	1	1	1	1	1	1
Dextrine	aqueous	1	1	1	1	1	1	1	1	1	1
Diaethyl ether		1	-	-	-	-	-	-	-	-	-
Dibutyl phthalate (DBP)		1	2	2	2	1	-	1	1	3	3
Dichloroethylene	techn. pure	3	3	3	3	3	3	2	-	3	3
Diesel fuel		1	2	-	-	1	1	1	2	1	-
Diesel oil	100 %	1	2	1	3	1	1	1	2	1	2
Diglycolic acid	30 %	1	1	1	1	-	-	1	1	1	2
Diglycolic acid	aqueous	1	1	1	1	-	-	1	1	-	-
Dimethyl formamide		1	1	1	2	1	-	1	1	2	3
Dioxane		-	-	-	-	1	-	2	2	-	-
Drinking water		-	-	-	-	-	-	-	-	1	1 (40°)
Emissions, carbon dioxide	low	1	1	-	-	1	1	1	1	1	1
Emissions, hydrochloric	any	1	1	-	-	-	-	1	1	1	1
Emissions, hydrofluoric	low	1	1	-	-	-	-	1	1	1	1
Emissions, nitrous	low	1	1	-	-	-	-	1	2	1	1
Emissions, sulfurdioxide	low	1	1	-	-	-	-	1	1	1	1
Emissions, sulfuric acid	any	1	1	-	-	-	-	1	2	1	1
Engine oil		-	-	-	-	1	1	1	1	-	-
Ethanol	50 %	1	1	1	1	1	1	1	1	1	-
Ethanol	96 %	1	-	1	-	1	1	1	1	1	-
Ethyl acetate		-	-	-	-	2	3	-	-	-	-
Ethyl alcohol	40 %	1	1	1	1	1	1	1	1	1	1
Ethyl alcohol	96 %	1	1	1	2	1	1	1	1	1	2
Ethyl chloride		2	2	1	3	3	3	2	3	3	3
Ethylene glycol		1	1	1	1	1	-	1	1	1	1
Fat, vegetable		-	-	-	-	1	-	1	2	-	-
Fatty acid	techn. pure	1	2	1	1	1		-	1	1	11
Fertilizer salts	saturated	1	1	1	1	1	-	1	1	1	1
Fluorhydric acid	40%	1	-	-	-	-	-	-	-	-	-
Fluorhydric acid	70%	1	-	-	-	-	-	-	-	-	-
Fluorhydric acid	100 %	-	-	-	-	3	3	1	1	-	-
Fluorhydric acid	4 %	1	1	1	1	3	3	1	1	1	2
Fluorhydric acid	50 %	1	1	1	1	3	3	1	1	1	2
Fluorine		3	3	3	3	3	3	3	3	1	1
Fluorine	dry	3	3	3	3	3	3	3	3	-	-
Fluosilicic acid		1	1	-	-	-	-	-	-	-	-
Formaldehyde	10 %	1	1	1	1	1	-	1	1	1	2
Formaldehyde	40 %	1	1	1	2	1	-	1	1	1	2
Formic acid	3 %	1	1	1	1	1	-	1	1	1	2
Formic acid	50 %	1	1	1	1	-	-	1	1	1	2
Formic acid	98-100 %	1	1	1	1	-	-	1	2	2	3
Freon 11		-	-	-	-	-	-	2	2	-	-
Fruit juices		1	1	1	1	1	-	1	1	1	1
Fruit tree carbolineum	aqueous	-	-	-	-	-	-	-	-	-	-
Fruit wine		1	1	1	1	1	1	1	-	1	-
Gelatine	any	1	1	1	1	1	1	1	1	1	-
Gelatine	aqueous	1	1	1	1	1	1	1	1	-	-
Glacial acetic acid		-	-	-	-	3	3	1	2	-	-
Glucose	any	1	1	1	1	1	1	1	1	1	2
Glue (animal glue, gelatine)	any	1	-	1	1	1	1	1	1	1	2
Glycerin	any	1	1	1	1	1	-	1	1	1	1
Glykol		1	1	1	1	1	-	1	1	-	-
Grape sugar	any	1	1	1	1	1	1	1	1	1	2
Grape sugar	aqueous	1	1	1	1	1	1	1	1	-	-
Hexane		1	2	3	3	1	-	1	2	1	3
Hexane, -n		1	2	3	3	1	-	1	2	1	3
Hydorcyanic acid	aqueous	1	1	1	1	-	-	1	1	1	-
Hydrazine	10 %	-	-	1	-	-	-	1	1	1	-
Hydrazine hydrate		1	1	-	-	-	-	-	-	-	-
Hydrobromic acid	40%	1	-	1	1	3	3	1	1	1	1
Hydrobromic acid	50 %	1	1	1	1	3	3	1	1	1	1
Hydrobromic acid	diluted	1	1	1	1	2	-	1	1	1	2
Hydrochloric acid	1-5 %	1	1	1	1	1	1	1	1	1	1
Hydrochloric acid	20 %	1	1	1	1	2	-	1	1	1	2
Hydrochloric acid	35 %	1	1	1	1	3	3	1	1	1	2
Hydrochloric acid	conc.	1	1	1	1	3	3	1	1	1	2
Hydrocyanic acid	techn. pure	1	1	1	1	-	-	1	1	1	2
Hydrofluosilicic acid	32 %	1	1	1	1	3	3	1	1	1	1
Hydrogen fluoride	anhydrous	-	-	-	-	3	3	1	1	-	-
Hydrogene chloride gas		-	-	-	-	3	3	1	1	-	-
Hydrogene peroxide	3 %	1	1	1	1	-	-	1	1	-	-
Hydrogene peroxide	30 %	1	1	1	1	-	-	1	1	-	-
Hydrosulphide	saturated	1	1	1	1	1	-	1	1	1	2
Hydroxylamine sulfate	any	1	1	-	-	-	-	1	1	1	-
Iodine tincture		1	2	1	2	-	-	1	1	3	3
Iron chloride	aqueous	1	1	1	1	-	-	1	1	-	-
Isooctane	techn. pure	1	2	1	2	1	-	1	2	1	-

MEDIUM	CONC.	HDPE		LDPE		PETG		PP		PVC HARD	
		20°C	50°C	20°C	50°C	20°C	50°C	20°C	50°C	20°C	50°C
Isopropyl alcohol	techn. pure	1	1	1	1	-	-	1	1	1	1
Kerosene		-	-	-	-	1	-	1	-	-	-
Kerosene		1	1	2	3	1	1	2	2	1	1
Ketone		1	1	-	-	-	-	-	-	-	-
Lactic acid	3 %	1	1	1	1	1	-	1	1	1	2
Lactic acid	80 %	1	1	1	1	-	-	1	1	1	2
Lactic acid	85 %	1	1	1	1	-	-	1	1	1	2
Lactic acid	aqueous	1	1	1	1	1	-	1	1	-	-
Lead acetate	aqueous	1	1	1	1	1	1	1	1	1	1
Lead-(II)-acetate		1	1	1	1	1	1	1	1	-	-
Linseed oil	techn. pure	1	1	1	2	1	-	1	1	1	2
Liqueurs		1	-	-	-	1	-	1	-	1	-
Lubricating oil		1	2	1	2	1	1	2	-	1	1
Magnesium sulphate	saturated	1	1	1	1	1	1	1	1	1	1
Magnesium sulphate	aqueous	1	1	1	1	1	-	1	1	-	-
Magnesiumchloride	aqueous	1	1	1	1	1	-	1	1	1	1
Maleic acid	saturated	1	1	1	1	-	-	1	1	1	2
Maleic acid	aqueous	1	1	1	1	-	-	1	1	-	-
Mercury	pur	1	1	1	1	1	1	1	1	1	1
Mercury chloride	aqueous	1	1	1	1	1	1	1	1	-	-
Methanol		1	1	1	1	1	-	1	1	1	2
Methoxybutanol	100 %	-	-	1	2	-	-	1	2	-	-
Methyl acetate	techn. pure	1	-	1	1	2	-	1	2	3	3
Methyl alcohol (methanole)		1	1	1	1	1	-	1	1	1	2
Methyl ethyl ketone		1	2	2	3	3	3	1	2	3	3
Methylen chloride		3	3	3	3	3	3	2	3	3	3
Milk		1	1	1	1	1	1	1	1	1	1
Molasses		1	1	1	1	1	-	1	1	1	2
Molasses wort		1	1	1	1	1	1	1	1	1	1
Mowilith D		1	-	-	-	1	1	1	-	1	-
Naphthaline	techn. pure	1	2	-	-	-	-	1	2	3	3
Naphthaline	100 %	-	-	1	2	-	-	1	2	3	3
Nitric acid	100 %	3	3	3	3	3	3	3	3	3	3
Nitric acid	1-10 %	1	1	1	1	1	1	1	1	1	1
Nitric acid	50 %	1	3	2	3	1	1	2	3	1	2
Nitric acid	66 %	1	3	2	3	3	3	3	3	3	3
Nitric acid	70 %	1	3	2	3	3	3	3	3	3	3
Nitrous dilution		-	-	-	-	-	-	2	2	-	-
Nitrous gases	diluted	1	1	-	-	-	-	1	3	1	2
Oil (vegetable) and animal fats		1	2	1	2	1	-	1	2	1	1
Oil, essential		3	3	2	3	-	-	2	3	-	-
Oleic acid	techn. pure	1	2	1	2	1	-	1	2	1	1
Oleum	10 % SO3	3	3	3	3	3	3	3	3	3	3
Oleum vapours	low	3	3	-	-	-	-	3	3	1	-
Olive oil		1	2	-	-	1	-	1	1	1	1
Oxalic acid		1	1	1	1	-	-	1	1	1	1
Oxalic acid	aqueous	1	1	1	1	1	1	1	1	-	-
Ozone		2	3	2	3	-	-	2	3	1	1
Palm kernel oil acid	100%	-	-	-	-	-	-	-	-	1	1
Palm-oil		1	2	-	-	1	-	1	2	1	-
Perchloric acid		1	3	1	3	3	3	1	3	1	3
Petrol		1	2	2	3	1	1	2	3	1	3
Petrol 10% ethyl alcohol		-	-	-	-	2	-	-	-	-	-
Petrol 10% methanol		-	-	-	-	2	-	-	-	-	-
Petrol ether		1	-	-	-	-	-	-	-	-	-
Petrol normal		-	-	-	-	2	-	-	-	-	-
Petrol normal unleaded		-	-	-	-	2	-	-	-	-	-
Petrol Super unleaded		-	-	-	-	2	-	-	-	-	-
Petroleum		1	1	1	3	1	1	1	2	1	1
Phenol	100 %	1	2	2	2	3	3	1	1	3	3
Phenol	10 %	1	1	1	1	3	3	1	1	1	2
Phosgene	techn. pure	-	-	2	-	-	-	2	3	3	3
Phosgene	liquid	-	-	-	-	-	-	-	-	-	-
Phosgene	gaseous	-	-	-	-	-	-	2	3	-	-
Phoshoric acid	1-5 %	1	1	1	1	1	-	1	1	1	1
Phoshoric acid	aqueous 20%	1	1	1	1	-	-	1	1	-	-
Phoshoric acid	30 %	1	1	1	1	-	-	1	1	-	-
Phoshoric acid	85 %	1	1	1	1	-	-	1	1	1	1
Phosphorus pentoxide	techn. pure	1	-	-	-	-	-	1	-	1	-
Photographic developers		1	2	1	1	1	-	1	1	1	2
Photographic developers		-	-	-	-	-	-	-	-	1	1 (40°C)
Photographic emulsion	any	-	-	-	-	-	-	-	-	1	1 (40°C)
Photographic fixing bath		-	-	-	-	-	-	-	-	1	1 (40°C)
Phthalilc acid	saturated	1	1	1	1	1	-	1	1	1	3
Plasticiser, DBS		-	-	-	-	1	1	-	-	-	-
Plasticiser, DOP		-	-	-	-	1	1	-	-	-	-
Polish remover		-	-	-	-	-	-	1	2	-	-
Potash	saturated	1	1	1	1	1	1	1	1	1	-
Potash	aqueous	1	1	-	-	1	1	1	1	-	-
Pottassium bichromate	saturated	1	1	1	-	2	-	1	1	1	2
Pottassium borate	10 %	1	1	1	1	1	1	1	1	1	2
Pottassium borate	aqueous	1	1	1	1	1	1	1	1	-	-
Pottassium bromate	saturated	1	2	1	2	-	-	1	1	1	2
Pottassium bromate	aqueous	-	-	-	-	-	-	1	1	-	-
Pottassium bromide	any	1	1	1	1	1	1	1	1	1	2
Pottassium chloride	aqueous	1	1	1	1	1	-	1	1	1	1
Pottassium chromate	saturated	1	-	1	1	-	-	1	1	1	1
Pottassium chromate	aqueous	-	-	-	-	-	-	1	1	-	-
Pottassium hydroxide	50 %	1	1	1	1	3	3	1	1	1	2
Pottassium hydroxide	conc.	1	1	1	1	3	3	1	1	1	1
Pottassium hydroxide	aqueous	1	1	1	1	3	3	1	1	-	-
Pottassium hydroxide	10 %	1	1	1	1	3	3	1	1	-	-
Pottassium hydroxide (Caustic pottash)	1 %	1	1	1	1	3	3	1	1	1	1
Pottassium nitrate	50 %	1	1	1	1	1	1	1	1	1	1
Pottassium nitrate	aqueous	1	1	1	1	1	1	1	1	-	-
Pottassium permanganate		1	2	1	1	1	1	1	1	1	2
Pottassium permanganate	aqueous	-	-	-	-	1	1	1	1	-	-
Pottassium sulphate	any	1	1	1	1	-	-	1	1	1	2

MEDIUM	CONC.	HDPE		LDPE		PETG		PP		PVC HARD	
		20°C	50°C	20°C	50°C	20°C	50°C	20°C	50°C	20°C	50°C
Propane	liquid	1	-	1	-	1	-	1	-	1	-
Propane	gaseous	2	3	3	3	1	-	1	3	1	1
Propanoic acid	50 %	1	2	1	2	-	-	1	1	1	2
Propanoic acid	techn. pure	1	2	1	2	-	-	1	2	1	-
Propyl alcohol		1	1	1	1	1	-	1	1	1	1
Propyl alcohol	100 %	1	1	1	1	1	-	1	1	1	1
Pyridine		1	2	-	1	-	-	2	2	3	3
Roasting gases	any	-	-	-	-	-	-	1	1	-	-
Sea water		1	1	1	1	1	1	1	1	1	2
Silicic acid	any	1	1	1	1	1	1	1	1	1	1
Silicone oil		1	1	1	1	1	-	1	1	1	3
Silver nitrate		1	1	1	1	1	1	1	1	1	1
Silver nitrate	aqueous	1	1	-	-	1	1	1	1	-	-
Silver salt	saturated	1	1	-	-	1	1	1	1	1	2
Soap solution	any	1	1	-	-	1	1	1	1	1	2
Sodium carbonate		1	1	1	1	-	-	1	1	-	-
Sodium carbonate		1	1	1	1	-	-	1	1	1	1
Sodium carbonate	saturated	1	1	1	1	-	-	1	1	1	1
Sodium carbonate	aqueous	1	1	1	1	1	-	1	1	-	-
Sodium carbonate	saturated	1	1	1	1	-	-	1	1	1	-
Sodium carbonate	aqueous	1	1	1	1	1	-	1	1	-	-
Sodium chloride	any	1	1	1	1	1	1	1	1	1	2
Sodium chloride	aqueous	1	1	1	1	1	1	1	1	-	-
Sodium fluoride	saturated	1	1	1	1	1	1	1	1	1	-
Sodium hydroxide	1 %	1	1	1	1	2	2	1	1	1	1
Sodium hydroxide	50 %	1	1	1	1	3	3	1	1	1	1
Sodium hydroxide	30 %	1	1	1	1	3	3	1	1	1	2
Sodium hydroxide	45 %	1	1	1	1	3	3	1	1	1	2
Sodium hydroxide	60 %	1	1	1	1	3	3	1	1	-	-
Sodium hydroxide	aqueous	1	1	1	1	3	3	1	1	-	-
Sodium hypochlorite		-	-	-	-	2	2	2	2	-	-
Sodium hypochlorite	12 % Cl	-	-	-	-	2	2	1	1	-	-
Sodium hypochlorite	15 %	1	1	1	1	2	2	1	1	1	1
Sodium hypochlorite	50 %	2	2	2	2	3	3	2	2	-	-
Sodium hypochlorite	saturated	1	2	1	2	3	3	1	2	1	2
Sodium hypochlorite	diluted	1	2	1	2	2	2	1	2	1	2
Sodium hypochlorite	aqueous	-	-	-	-	2	2	2	2	-	-
Sodium hypochlorite solution	20 %	1	2	1	2	3	3	1	2	1	2
Sodium hypochlorite solution	50 %	2	2	2	2	3	3	2	2	1	-
Sodium hypochlorite solution	diluted	1	2	1	2	2	-	1	2	1	2
Sodium nitrate	saturated	1	1	1	1	1	1	1	1	1	2
Sodium nitrate	aqueous	1	1	1	1	1	-	1	1	-	-
Sodium silicate	aqueous	1	1	1	1	1	-	1	1	-	-
Sodium silicate	any	1	1	1	1	1	-	1	1	1	2
Sodium sulfide	aqueous	1	1	1	1	1	-	1	1	-	-
Spindle oil		2	2	1	2	1	-	1	3	2	-
Starch dilution	any	1	1	1	1	1	1	1	1	1	1
Starch sirup		1	1	1	1	1	1	1	1	1	1
Stearic acid	crystals	1	2	1	2	1	-	1	2	1	1
Styrene	100 %	3	3	2	3	1	1	2	3	3	3
Succinic acid	50 %	1	1	1	1	-	-	1	1	1	-
Succinic acid	saturated	1	1	1	1	-	-	1	1	1	2
Succinic acid	any	1	1	1	1	-	-	1	1	1	1
Sugar sirup		1	1	1	1	1	1	1	1	1	2
Sulphur	techn. pure	1	1	1	1	1	1	1	1	2	-
Sulphur dioxide	humid	1	1	1	1	-	-	1	2	1	1
Sulphur dioxide	liquid	2	3	3	3	-	-	3	3	2	3
Sulphur trioxid		3	3	3	3	3	3	3	3	3	3
Sulphuric acid	1-6 %	1	1	1	1	-	-	1	1	1	1
Sulphuric acid	20 %	1	1	1	1	-	-	1	1	1	1
Sulphuric acid	40 %	1	1	1	1	3	3	1	1	1	2
Sulphuric acid	60 %	1	2	1	2	3	3	1	2	1	1
Sulphuric acid	80 %	1	1	1	1	3	3	1	1	1	1
Sulphuric acid	95 %	2	3	2	3	3	3	2	3	1	3
Sulphuric acid	smoking	3	3	3	3	3	3	3	3	3	3
Tallow	techn. pure	1	1	1	1	1	-	1	1	1	1
Tannic acid		1	1	1	1	-	-	1	1	-	-
Tanning extracts	usual	1	1	1	1	-	-	1	2	-	-
Tanning extracts, vegetable	usual	1	1	1	1	-	-	1	1	1	-
Terpentine		-	-	-	-	1	1	-	-	-	-
Terpentine oil		1	1	2	3	1	-	3	3	1	2
Tetralin		2	3	2	3	1	-	3	3	-	-
Thionyl chloride	techn. pure	3	3	3	3	-	-	3	3	3	3
Thionyl chloride		3	3	3	3	-	-	3	3	3	3
Toluene		2	3	2	3	1	-	2	3	3	3
Transformer oil	100 %	1	2	2	2	1	1	1	2	1	-
Trichlorethylene	100 %	2	3	3	3	3	3	3	3	3	3
Triethanol amine	techn. pure	1	1	1	1	1	-	1	1	2	-
Urea	aqueous	1	1	1	1	1	-	1	1	-	-
Urea (carbamide)		1	1	1	1	1	-	1	1	1	3
Urine		1	1	1	1	1	-	1	1	1	2
Waste water each kind											
(also strongly sour, however without organic solvents)		-	-	-	-	-	-	-	-	1	1(40° C)
Water		1	1	1	1	1	1	1	1	1	2
Water, distilled/desalted		1	1	1	1	1	1	1	1	1	2
Wax alcohol	techn. pure	2	3	2	3	1	-	2	3	1	1
Wine vinegar		1	1	1	1	1	1	1	1	1	-
Wine vinegar		1	1	1	1	1	1	1	1	1	1
Wine vinegar		1	1	1	1	-	-	1	1	1	1
Wine vinegar	aqueous	1	1	1	1	-	-	1	1	-	-
Wines		1	1	1	1	1	1	1	1	1	1
Xylene		2	3	2	3	-	-	3	3	3	3
Yeast	any	1	12	1	1	1	-	1	1	1	-
Zinc chloride	10 %	1	1	1	1	-	-	1	1	1	2
Zinc chloride	aqueous	1	1	1	1	-	-	1	1	-	-
Zinc sulphate	10 %	1	1	1	1	1	1	1	1	1	1
Zinc sulphate	aqueous	1	1	1	1	1	1	1	1	-	-

All data is without warranty, please refer to comments on page 24 “Raw materials”

Your notes:



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