

FAST Filtration Analysis Services Technology Ltd

OIL FILTRATION SOLUTIONS FOR INDUSTRY

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FA-ST PETG Sampling Bottles

Unit 4 Foxwood Road Dunston Trading Estate Chesterfield Derbyshire S41 9RF T: +44 (0) 1246 268900

PETG Single-Use Bottle Assemblies

- Bottles are individually capped and process ready
- Multiple bottle sizes allow for process specific flexibility
- When used with vacuum sampling pumps, custom possibilities are limitless

PETG containers are air cleaned to provide the maximum amount of flexibility and reliability

- Assembled in clean environment
- 60ml, 100ml, 120ml, 200ml, 250ml size selection
- All product contact materials are animal free processed in accordance to EMEA/410/01
- Able to withstand temperatures between 0°C and 65°C without losing integrity
- Manufactured from polyethylene terephthalate



Bottles have been designed with a broad spectrum of applications in mind

- General Laboratory Use
- Suitable for most types of oils, glycols, diesel fuel water (see chemical resistance chart for full range of fluids)
- Environmental Assays
- Production & Clean Room Applications
- New Products added when available
- Can be purchased in any quantity from a single bottle, pack, box, pallets, and container quantities

PETG Single-Use Sampling Bottles

Capacity ml (oz.)	Cap Size	Thread Size	OD Diameter	Height with Cap	Pack of	Case of	Part. No
60 (2.2)	28mm	28mm	39.28mm	80.83mm	1 to 100	5 Packs	PETG60-28
100 (3.5)	38mm	38mm	41.87mm	97.60mm	1 to 100	5 Packs	PETG100-38
120 (4.06)	41mm	41mm	49.56mm	94.99mm	1 to	5 Packs	PETG120-41
150 (5.25)	38mm	38mm	50.66mm	105.55mm	1 to 100	5 Packs	PETG150-38
200 (7.0)	38mm	38mm	58.81mm	110.13mm	1 to 100	5 Packs	PETG200-38
250 (8.75)	28mm	28mm	56.11mm	110.13mm	1 to 100	5 Packs	PETG250-28

All PETG Sampling Bottles can be purchased from our Ecommerce at

www.oilsampling.co.uk

Contact FA-ST Ltd for custom Single-Use Solutions; E-mail sales@fa-st.co.uk or Tel +44(0)1246268900

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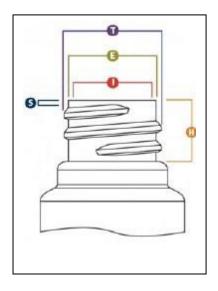
FA-ST Sampling Bottles

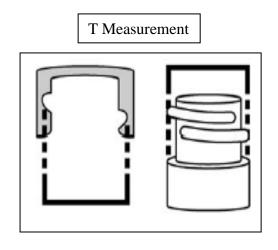
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How to Measure Bottle Neck Sizes for Vacuum Pump Compatibility

The most important measurement is the T Dimension.

- "T" Dimension The outside diameter of the thread. The tolerance range of the "T" dimension willdetermine the mate between bottle and closure.
- "E" Dimension The outside diameter of the neck. The difference between the "E" and "T" dimensions divided by two determines the thread depth.
- "I" Dimension The inner diameter of the bottle neck. Specifications require a minimum "I" to allowsufficient clearance for filling tubes. Liner less closures, with a plug or land seal, and dispensing plugsand fitments require a controlled "I" dimension for a proper fit.
- "S" Dimension Measured from the top of the finish to the top edge of the first thread. The "S" dimension is the key factor that determines the orientation of the closure to the bottle and the amount of thread engagement between the bottle and cap.
- "H" Dimension The height of the neck finish. Measured from the top of the neck to the point wherethe diameter "T", extended down, intersects the shoulder.











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.

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	natural colour	transparent	translucent white	transparent	crystal clear	crystal clear		up to 0,5 mm wall thick- ness crystal clear
properties of thermoplasics	state at 20 °C	flexible	flexible/rigid	flexible/rigid	brittle/ impact resistant	brittle/ impact resistant		flexible/tough vulnerable to folding
	specific weight at 20 °C	approx. 0,92	approx. 0,95	approx. 0,905	approx. 1,38	approx. 1,25		approx. 1,12
	shore hardness 20 °C	approx. 90	approx. 95	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
	elongation at 20 °C	approx. 500 %	approx. 500 %	approx. 650 %	approx. 30 %	approx. 15 %		approx. 200 %
	water absorption	traces	traces	traces	traces	traces		high
	diffusion	hydrocarbons	hydrocarbons	hydrocarbons	hydrocarbons	hydrocarbons		water, hydrocarbons
	This information only provides a	general indication.						
Chemical properties of	resistant against	excl. chlorinated hydroc	is, organic solvents, arbons; it is advisable to ts for testing diffusion	sh. Polyethylen see LDPE/HDPE weich	acids, alkalis, petrol, oil, fats, terpentine, alcohol	petrol, oils, fats, terpentine	petrol, benzene, chlorinated hydro- carbons, oils, fats	weak acids
thermoplasics	not resistant against	oxidising acids, oils, fats, chlorinated hydrocarbons	oxidising acids, chlorinated hydrocarbons	oxidising acids, sh. Polyethylen oils, fats, chlorina- weich ted	esters, ketone, benzene, chlorinatid hydrocarbons, hydrogene sulphide	esters, ketone, benzene, chlorina- ted hydrycarbons	acids, alkalis, alcohol, water	alkalis, strong acids, esters, ketone, benzene, chlorinated hydrocarbons
	This information only provides a	a general indication, storage	e tests are recommended.					
Applications	container size	0,001 to 1000 I	0,001 to 3000 I	0,01 to 120 I	0,01 to 5 I	0,01 to 1 l	0,01 to 60 l	0,01 to 30 I
	type of contents	cosmetic preparations, food- stuffs 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	e material itself, possibl	y 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

MEDIUM	CONC.	HD 20°C	PE 50°C	LD 20°C	PE 50°C	PE 20°C	TG 50°C		50°C	PVC I 20°C	HARD 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 Acetic acid	50 % 5 %	1	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	20.0/	1	1	1	1	-	3	2	3	3	3
Acid, battery Acrylic acid ethyl ester	38 % 100%	1 -	1 -	1	1 -	3	3	-	1 -	1 3	2
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 Aluminium chloride	solid 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	i	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	1	2
Ammonium chloride Ammonium fluoride	aqueous 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 Ammonium sulfate	saturated	1	1	1	1	1	1	1	1	1	1
Ammonium suifate Ammonium sulfide	aqueous any	1	1	1	1	-	-	1	1	1	2
Ammonium sulfide	aqueous	1	1	1	1	-	-	1	1	-	-
Amyl acetate (Pentylacetate)	aquoouo	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)	90 %	1	1	1	1	1	-	1	1	1	-
Antimony trichloride Aqua regia	90 %	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 Benzene		1	1	1 2	1 3	1	3	1 2	1	1	1 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 Brake fluid	aqueous	1	1	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 Butanol	techn. pure techn. pure	1	- 1	1	1 2	1	-	1	1	1	2
Butinediol	10 %	1	1	1	1	1	-	1	1	1	-
Butyl acetate	10 /0	1	1	1	2	2	-		3	3	3
Butyric acid		2	3	3	2	-	-	2	3	1	3
Calcium chloride	aqueous	1	1	1	1	1	-	1	1	1	2
Calcium hypochlorite	aqueous	- 1	-	- 1	- 1	2	2		1	1	12
Calcium hypochlorite Calcium nitrate	saturated 50 %	1	1	1	1	1	2 1	1	1	1	12
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 Caustic potash	30 % 50 %	1	1	1	1	3	3	1	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 Chlorinated water		2	-	-	3	3	3	3	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	J. 70	-	-	-	-	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	to also	3	3	2	3	1	3	2	3	3	3
Chlorsulphonic acid Chromic acid	techn. pure 10 %	3 1	3 1	3	3	3 2	3	3	3	2	- 1
Shromic acid Chromic acid	20 %	-	-	1		3		2		1	-
41 11 41 11 11 11 11 11 11 11 11 11 11 1					2	3	3		2		
Chromic acid	50 %	2	3	2	- 3	3	4	1	2		

MEDIUM	CONC.	HDPE 20°C 50°C	LDPE 20°C 50°C	PETG 20°C 50°C	PP 20°C 50°C	PVC HARD 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 % saturated	1 1	1 2	1 -	1 2	1 - 1 2
Cyanogen potash Cyclanone	Saturateu	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	400.0/	1 2	 1 2	1 1	1 2	1 -
Diesel oil Diglycolic acid	100 %	1 2	1 3	1 1	1 2 1 1	1 2 1 2
Diglycolic acid Diglycolic acid	30 % aqueous	1 1	1 1		1 1	1 2
Dimethyl formamide	aqueous	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 (40)
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	toobn nuro	1 2	1 1	1 -	1 2	1 11
Fatty acid Fertilizer salts	techn. pure 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 % 50 %	1 1	1 1	1 -	1 1	1 2
Formic acid	98-100 %					
Formic acid Freon 11	30-100 %	1 1	1 1		1 2 2	2 3
Fruit juices		1 1	1 1	1 -	1 1	1 1
Fruit tree carbolineum	aqueous					
Fruit wine	2440040	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)	aný	1 -	1 1	1 1	1 1	1 2
Glycerin	any	1 1	1 1	1 -	1 1	1 1
Glýkol		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	001100110	1 2	3 3	1 -	1 2	1 3
Hydorcyanic acid Hydrazine	aqueous 10 %	1 1	1 1		1 1	1 - 1 -
Hydrazine Hydrazine hydrate	10 70	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
Hýdrochloric 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 -
lodine tincture	001100110	1 2	1 2		1 1	3 3
Iron chloride	aqueous	1 1 1	1 1 1	1 -	1 1 1	1 -
Isooctane	techn. pure	1 2	1 2		1 2	-

MEDIUM	CONC.	HDPE 20°C 50°C	LDPE 20°C 50°C	PETG 20°C 50°C	PP 20°C 50°C	PVC HARD 20°C 50°C
sopropyl alcohol	techn. pure	1 1	1 1		1 1	1 1
Kerosene		. .		1 -	1 -	. -
Kerosene Ketone		1 1	2 3	1 1	2 2	1 1
actic acid	3 %	1 1	1 1	1 -	1 1	1 2
actic acid	80 %	1 1	1 1		1 1	1 2
actic acid	85 %	1 1	1 1		1 1	1 2
actic acid	aqueous	1 1	1 1	1 -	1 1	
Lead acetate Lead-(II)-acetate	aqueous	1 1	1 1	1 1	1 1	1 1
inseed oil	techn. pure	1 1	1 2	1 -	1 1	1 2
iqueurs	10011111 0110	1 -		1 -	1 -	1 -
ubricating 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 Magnesiumchloride	aqueous 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 Methanol	aqueous	1 1	1 1	1 1	1 1	1 2
Methoxybutanol	100 %		1 2		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
Λilk Λolasses		1 1	1 1	1 1	1 1	1 1
Molasses wort		1 1	1 1	1 1	1 1	1 1
Mowilith D		1 -		1 1	1 -	1 -
laphthaline	techn. pure	1 2		<u> </u>	1 2	3 3
laphthaline	100 %		1 2		1 2	3 3
litric acid	100 %	3 3	3 3	3 3	3 3	3 3
litric acid litric acid	1-10 % 50 %	1 1 1 1 3	1 1 2 3	1 1	1 1 2 3	1 1 1
litric acid	66 %	1 3	2 3	3 3	3 3	3 3
litric acid	70 %	1 3	2 3	3 3	3 3	3 3
litrous dilution					2 2	
Nitrous gases	diluted	1 1			1 3	1 2
Dil (vegetable) and animal fats Dil, essential		1 2 3	1 2 2	1 -	1 2 2	1 1
Dieic acid	techn. pure	1 2	1 2	1 -	1 2	1 1
Dleum	10 % SO3	3 3	3 3	3 3	3 3	3 3
Dleum vapours	low	3 3		1 1	3 3	1 -
Dlive oil .		1 2		1 -	1 1	1 1
Oxalic acid		1 1	1 1		1 1	1 1
Oxalic acid Ozone	aqueous	1 1 2 3	1 1 2 3	1 1	1 1 2 3	1 1
Palm kernel oil acid	100%				2 3	1 1
Palm-oil	10070	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 Petrol 10% methanol				2 -		
Petrol ether		1 -				
Petrol normal				2 -		
Petrol normal unleaded				2 -		
Petrol Super unleaded				2 -		
Petroleum Phenol	100 %	1 1	1 3 2	1 1	1 2	1 1 3
Phenol	100 %	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 Phoshoric acid	aqueous 20% 30 %	1 1	1 1		1 1	
Phoshoric acid	85 %	1 1	1 1		1 1	1 1
hosphorus pentoxide	techn. pure	1 -			1 -	1 -
hotographic developers	, i	1 2	1 1	1 -	1 1	1 2
hotographic developers	0.5					1 1 (40°C
hotographic emulsion hotographic fixing bath	any					1 1 (40°C 1 1 (40°C
hthalilc acid	saturated	1 1	1 1	1 -	1 1	1 1 (40 °C
Plasticiser, DBS	Jararatou			1 1		
lasticiser, DOP				1 1		
olish remover					1 2	
Potash	saturated	1 1	1 1	1 1	1 1	1 -
otash ottassium bichromate	aqueous saturated	1 1	1 -	1 1	1 1	1 2
ottassium borate	10 %	1 1	1 1	1 1	1 1	1 2
Pottassium borate	aqueous	1 1	1 1	1 1	1 1	
ottassium bromate	saturated	1 2	1 2		1 1	1 2
ottassium bromate	aqueous				1 1	
ottassium bromide	any	1 1	1 1	1 1	1 1	1 2
Pottassium chloride Pottassium chromate	aqueous saturated	1 1	1 1		1 1	1 1
ottassium chromate	aqueous				1 1	
Pottassium hydroxide	50 %	1 1	1 1	3 3	1 1	1 2
ottassium hydroxide	conc.	1 1	1 1	3 3	1 1	1 1
ottassium 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) Pottassium nitrate	1 % 50 %	1 1	1 1	3 3	1 1	1 1
ULIASSIUITI TIILIALE		1 1	1 1	1 1	1 1	1 1
Pottassium nitrate	SUIDDIE					
	aqueous			1 1	1 1	1 2
Pottassium nitrate Pottassium permanganate Pottassium permanganate	aqueous	1 2			1 1	1 2 1 2

MEDIUM	CONC.	HDPE 20°C 50°C	LDPE 20°C 50°C	PETG 20°C 50°C	PP 20°C 50°C	PVC HARD 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	100.0/	1 1	1 1	1 -	1 1	1 1
Propyl alcohol Pyridine	100 %	1 1 1	1 1	1 -	1 1 2	1 1 3 3
Roasting gases	any				1 1	3 3
Sea water	arry	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 Sodium carbonate	any	1 1	1 1		1 1	1 2
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 Sodium fluoride	aqueous 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 Sodium hypochlorite	12 % CI			2 2 2	2 2	
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 Sodium hypochlorite solution	50 % diluted	2 2	2 2	3 3	2 2	1 - 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 Starch dilution	on.	2 2	1 2	1 -	1 3	2 -
Starch sirup	any	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 Sulphur	techn. pure	1 1	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 Sulphuric acid	40 % 60 %	1 1	1 1	3 3 3	1 1	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	Lieus	1 1	1 1		1 1	
Tanning extracts Tanning extracts, vegetable	usual usual	1 1	1 1		1 2	1 -
Terpentine	usudi			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	1 -	3 3	3 3 3
Toluene Transformer oil	100 %	2 3	2 3 2	1 -	2 3	3 3
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 Waste waste a cash bind		1 1	1 1	1 -	1 1	1 2
Waste water each kind						1 4/400 (0)
(also strongly sour, however without organic solvents) Water		1 1	1 1	1 1	1 1	1 1(40° C) 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	i 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 2 3	1 1 2 3	1 1	1 1 3	1 1 3 3
Xylene Yeast	any	1 12	1 1	1 -	1 1	3 3
Zinc chloride	10 %	1 12	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	<u> </u>