TRI C
TRADING

https://trictrading.com

TRI C TRADING

FOR PLASTIC INDUSTRIES

PIPES AND FITTING SYSTEMS

مركز تكنولوجيا البلاستيك

Vision:

Entrepreneurship plastic, metal products and modern manufacturing systems.

Mission:

our mission is providing the best customer service and technical support for technicians and develop products to meet international standards in the field of plastic, metal industries and modern systems using the latest technologies in all fields.
Innovation through young professional, distinct and harmonious team to build a bright future and contribute to uphold Made in Egypt in the local and regional market.

Values:

- Commitment.
- Innovation.
- Integration.
- Harmony.

PP-R PIPES AND FITTINGS SYSTEM

TRI C TRADING PPR Pipes and fittings are manufactured according to the German and International Standards.

German Standards:

DIN 8077 Dimension of Pipes.
DIN 8078 General quality and testing of fittings.
DIN 16962 Part 5 General qualities and testing of fittings.
DIN 16962 Part 2,4,6,7,8,9,10,13 Dimension of Fittings.
DIN 1988 Technical rules for drinking water installations.

International Standards:

ISO 15874 Plastic Pipe System for hot and cold Water installations.
Part 1 General
Part 2 Pipes
Part 3 Fittings

1- Pipes :

Color: green with one red line.
International Standards ISO 9001 / 2000 German STD DIN 8077 – 8078
Type of resin PP-R type 3
Class pipe acc. (SDR & S) & PN (16 - 20)
Size
Time and Date of Production.

2 – Fittings :

Color: green
International Standards ISO 9001 / 2000 German STD DIN 8077 – 8078
Type of resin PP-R type 3
Class Fitting acc. (SDR & S) & PN (25)
Size

Scope and field of application
The polymer type used for **TRI C TRADING** pipes system is thermoplastic propylene random copolymers PP-R (type3)

Hygienic suitability :
According to DIN 1988 T2 and the law for food commodity the PP-R materials which is directly in contact with potable water are commodity good.

The effect on the domestic water :
The increasing use of PP-R in the field of food packing confirms the hygienic qualities of the materials this makes **TRI C TRADING** the optimal packing for one of our most precious commodity goods for portable water. The domestic supply system should influence the water on its way up to the taps as little as possible. Choosing the right domestic water pipes system and its materials is of decisive importance pipes system are suitable for all different qualities of potable water.

Easy to install:
It's flexible, light, easy to cut and easy to be fused for installation.

Smooth:
The smooth internal surface of PP-R products reduces frictional losses and prevents fouling and scaling on long term, this maintains a greater capacity for a given diameter than with conventional products.

U.V Resistance:
PP-R pipes and fittings should not be installed (without protection) when subjected to UV radiation.
TRI C TRADING pipes and fittings have UV stabilizer to bridge transport and installation times. Maximum storage time in the open air is 6 months.

Fire Resistance:
TRI C TRADING pipes system is normally inflammable and this reduces the risk of fire.
TRI C TRADING pipes system do not produce any toxic gases and it gives no risk of dioxin emission.

Environmental Effect:
TRI C TRADING pipes system is physiologically, environmentally and microbiologically harmless.

Durability:
TRI C TRADING pipes system has extrapolated durability more than 50 years' peak temperature of 100 arising from short disruptions are un problematic.

Brass:
Nontoxic brass.
Have the highest fixation power in the PP-R Product cause it has the largest types of fixations (fixations teeth, slots & knurl)

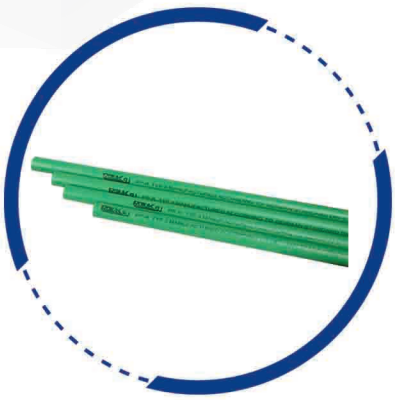
General Properties

TRI C TRADING Pipes system stops corrosion with no effect on the flow rate.
TRI C TRADING Pipes system have no danger of algae development installation.
TRI C TRADING Pipes system offers a unique and unrivalled connection process : material by fusion.
TRI C TRADING Pipes system connection can be hydravilc pressure tested or put in to operation directly after their fusion there are no waiting times .
flow rate increased due the large inner diameter .

Typical Value	*Test Method*	*Main Value*	*Unit*
physical properties			
Density 23 °c	ISO 11 83	0.895	g / cm 2
Vicat softening Temperature (0.98N)	ISO 306	130	°C
Rheology			
Melt Mass Flow Rate MFR(230°C/2.16kg)	ISO 1133	0.3	g /10 min
Mechanical Properties			
Tensile modules (1mm / min)	ISO 527 - 1.2	900	Mpa
Tensile Stress yied (50mm / min)	ISO 527 - 1.2	27	Mpa
Tensile Strain yied (50mm / min)	ISO 527 - 1.2	13	%
Charpy impact strength at -23 °c	ISO 1791/eU	N.B	KJ/m2
Charpy impact strength at -20 °c	ISO 1791/eU	30	KJ/m2
Charpy impact strength Notched at -20°c	ISO 1791/eU	38	KJ/m2
Charpy impact strength Notched at -20 °c	ISO 1791/eU	2	KJ/m2
Thermal Properties			
Heat deflection (Temperature 0.45 Mpa (HTD/B)	ISO 75 - 1.2	88	°C
Mean coefficient of linear (Thermal Expansion 0:110 °c)	DIN 53752	1.5 x	K^{-1}
Thermal conductivity	DIN 52612 -1	0.23	$K^{-1} M^{-1}$
Electrical Properties			
Surface resistance	DIN 53482	$>10^{13}$	Ohm.cm

PP-R Pipes Dimensions acc . To Din 8077

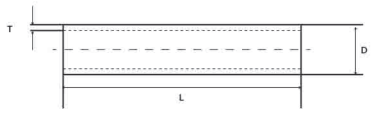
	Pipe series (S)															
	20		16		12.5		8.3		5		3.2		2.5		2	
	Pressure Reting															
d	PN 2.5		PN3.2		PN 4		PN 6		PN 10		PN 16		PN 20		PN 25	
	Standard dimension ratio (SDR)16															
	41		33		26		17.6		11		7.4		6		5	
	S	mass in kg/m	S	mass in kg/m	S	mass in kg/m	S	mass in kg/m	S	mass in kg/m	S	mass in kg/m	S	mass in kg/m	S	mass in kg/m
10	-	-	-	-	-	-	-	-	-	-	-	-	1.8	0.046	2.0	0.050
12	-	-	-	-	-	-	-	-	-	-	1.8	0.057	2.0	0.062	2.4	0.071
16	-	-	-	-	-	-	-	-	-	-	2.2	0.095	2.7	0.110	3.3	0.128
20	-	-	-	-	-	-	-	-	1.9	0.107	2.8	0.148	3.4	0.172	4.1	0.198
25	-	-	-	-	-	-	-	-	2.3	0.164	3.5	0.230	4.2	0.266	5.1	0.307
32	-	-	-	-	-	-	1.8	0.172	2.9	0.261	4.4	0.370	5.4	0.434	6.5	0.498
40	-	-	-	-	1.8	0.217	2.3	0.273	3.7	0.412	5.5	0.575	6.7	0.671	8.1	0.775
50	-	-	1.8	0.274	2.0	0.301	2.9	0.422	4.6	0.638	6.9	0.896	8.3	1.04	10.1	1.21
63	1.8	0.349	2.0	0.382	2.5	0.474	3.6	0.659	5.8	1.01	8.6	1.41	10.5	1.85	12.7	1.91
75	1.9	0.438	2.3	0.528	2.9	0.647	4.3	0.935	6.8	1.41	10.3	2.01	12.5	2.34	15.1	2.70
90	2.2	0.616	2.8	0.758	3.5	0.936	5.1	1.33	8.2	2.03	12.3	2.87	15	3.36	18.1	3.88
110	2.7	0.903	3.4	1.12	4.2	1.37	6.3	1.99	10.0	3.01	15.1	4.30	18.3	5.01	22.1	5.78
125	3.1	1.18	3.9	1.45	4.8	1.76	7.1	2.55	11.4	3.91	17.1	5.35	20.8	6.47	25.1	7.46
140	3.5	1.48	4.3	1.80	5.4	2.23	8.0	3.2	12.7	4.87	19.2	6.95	23.3	8.12	28.1	9.35
160	4.0	1.91	4.9	2.32	6.2	2.92	9.1	4.17	14.6	4.87	21.9	9.04	26.6	10.6	32.1	12.2



PIPES

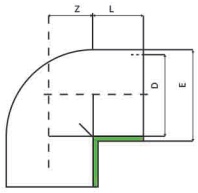
D	L	PN
32	4000	16
50	4000	16
63	4000	16
75	4000	16
90	4000	16
110	4000	16
20	4000	20
25	4000	20
32	4000	20

D	L	PN
50	4000	20
63	4000	20
75	4000	20
90	4000	20
110	4000	20



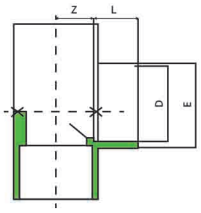
ELBOW 90

D	L	Z	E
20	16	12	30
25	18	15	36
32	20	20	46
50	25	30	66
63	28	35	81



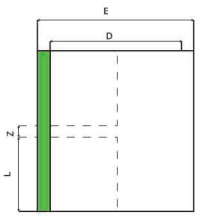
TEE 90

D	L	Z	E
20	16	11	30
25	19	14	36
32	22	18	45
50	29	27	66
63	33	32	82



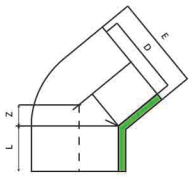
SOCKET

D	L	Z	E
20	34	4	30
25	37	4	36
32	43	4	46
50	55	5	66
63	63	6	81



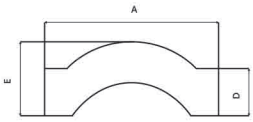
ELBOW 45

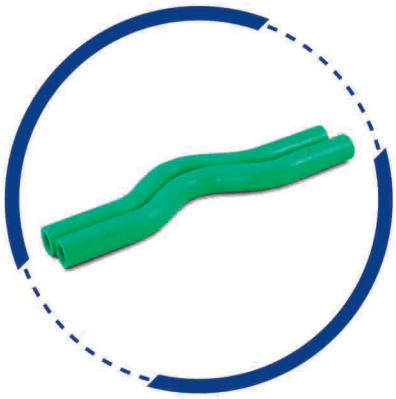
D	L	Z	E
25	18	8	34
32	18	10	44



CROSSOVER
Two Socket

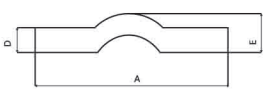
D	A	E
20	100	45
25	120	55

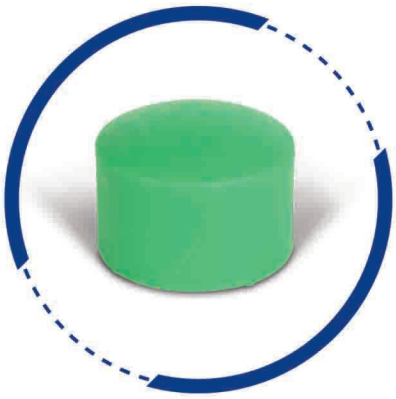




CROSSOVER

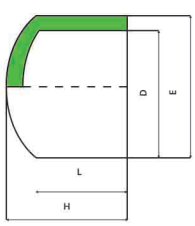
D	A	E
20	300	55
25	300	65





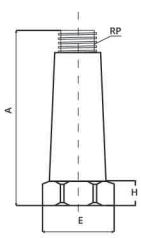
CAP

D	L	H	E
20	20	23	30
25	23	25	35
32	27	30	45
50	29	35	65
63	38	50	80



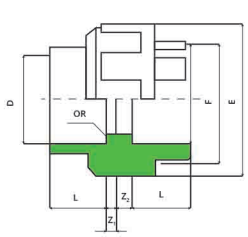
TEST CUP

A	E	H	RP
82	35	20	½"



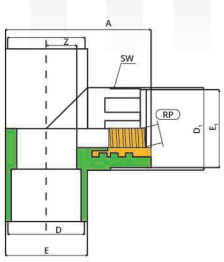
SOCKET UNION

D	E	F	Z1	Z2	L
25	60	36	6	16	20
32	65	40	7	20	22



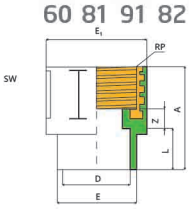
TEE 90
Female Threaded

D/RP	Z	Z1	E	E1	A	L	SW
20× ½"	24	15	30	35	68	58	39
25× ½"	24	15	35	35	72	63	39
32× 1"	25	20	45	52	82	80	55



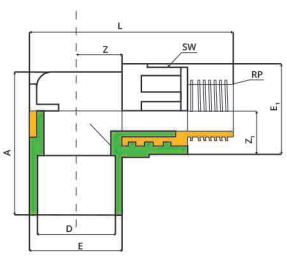
SOCKET
FemaleThreaded

D/RP	Z	E	E1	A	S	SW
20× ½"	38	30	35	40	16	39
25× ½"	38	35	35	40	16	39
25× ¾"	25	35	46	43	16	48
32× ¾/4"	25	45	46	45	18	48
32× 1"	45	45	52	51	18	55
50× 1½"	50	66	76	61	24	81
63× 2"	60	81	91	82	26	98



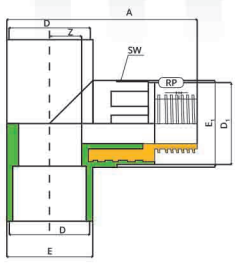
ELBOW 90
Male Threaded

D/RP	Z1	E	E1	E1	A	L	SW
25× ½"	15	35	37	37	48	72	39



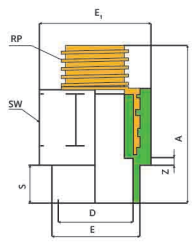
TEE 90
Male Threaded

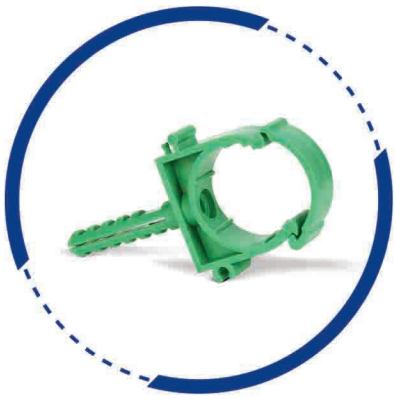
D/RP	Z	Z1	E	E1	A	L	SW
20× ½"	24	15	30	35	68	58	39
25× ½"	24	15	35	35	72	63	39
32× 1"	25	20	45	52	82	80	55



SOCKET
Male Threaded

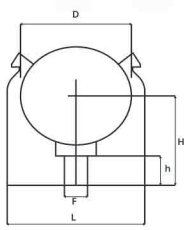
D/RP	Z	E	E1	A	S	SW
20× ½"	38	30	35	55	16	39
25× ½"	38	35	35	55	16	39
32× 1"	45	45	52	66	18	55
50× 1½"	50	66	76	76	24	81
63× 2"	60	81	91	87	26	98





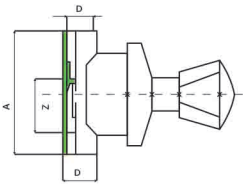
FISHER

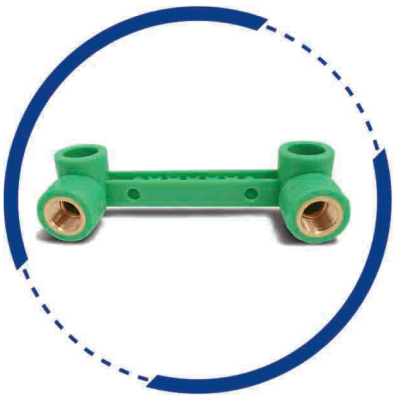
D	F	L	H	h
20	10	27	18	9
25	10	32	20	9
32	10	39	22	9



CONCEALED VALVE

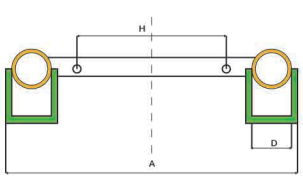
D	A	Z	E
20× ¾	74	43	30
25	78	46	35





TEST CUP

D/RP	A	H
25× ½"	188	78



UPVC PIPES & FITTINGS SYSTEM

Basic Information

Material

Poly Vinyl Chloride (PVC)
Test Marks
Un Plasticized Poly Vinyl Chloride
K – Value 67 for Pipe
K – Value 57 for Fitting
Quality Requirements
ES 1717 (2008) , DIN 8061 , DIN 8062 , DIN 19531 , EN 1329 and Dimension according to ISO 160 Part 1 & 2 Technical recommendation of installation

Color

White Pipe by one blue longitudinally line.

Chemical Resistance

resistant to inorganic salts, concentrated bases and mineral as found in laboratory discharges organic solvent, will not dissolve PVC.

Marking

Pipe bear the following permanent marks in color.
UPVC DWV 110 ▯ 3 mm m/c (1) S. (1) 11:45 72017/7/ ES 1717
Made in EGYPT by CO. For Plastic Industries.

1- The brand
2- Material type.
3- Drain, waste and vent (DWV) systems.
4- The nominal size.
5- The extrusion lines no.
6- The Quality control shift no.
7- The production shift no.
8- The date and the time of manufacture.
9- The number of the standard specification ES 1717.

Fittings show the angles degree of the branches, the number of cavity, the month and the year of production.

Out side Diameter (OD)
32 – 48 – 60 – 75 – **90** –110 – **114** – 160 – **168** – 200 mm

Laying Length
6000mm

Jointing **PVC VEMENT**

Application Drainage inside building and factories drainage of aggressive fluids.

THE ADVANTAGES OF UPVC PIPE SYSTEM

The group of materials known as un plasticized PVC is one of the most important developments of the last few decades the cost and improves the reliability of pipeline installations. The properties can vary by addition of small modifying agents which have definite and controlled mechanical properties. They can be fabricated to close dimensional tolerances, light without being weak. Rigid without being brittle.
Furthermore, these materials can be converted into pipes and fittings by variable direct processes of extrusion or injection molding even though these processes demand heavy elaborate machinery and very precise processes.
The principal reason for the great handling of **TRI C TRADING** pipes is not. only their cost per meter as delivered to the site but also the dramatic reduction in installation costs which can be achieved by intelligent exploitation of their light weight. Higher availability in longer lengths. Their easy jointing and their resistance to corrosion. These characteristics are of even greater importance to engineers now that the need to carry out water supply and sewerage schemes. Industrial plant installation.etc.at minimum cost and maximum reliability.

NON – Corrosive
UPVC pipes resist corrosion caused by acid, alkalis, salts, oils, moisture and the media inside and outside the pipe.

NON – ToXIC
UPVC pipes are entirely non-toxic. It will not affect the taste, Smell of water or liquid it doesn't react with any liquid to cause precipitation.

LOW FLOW LOSSES
UPVC pipes have a mirror – smooth surface which minimize resistance and impede the build – up of deposits and corrosive scales.

MECHANICAL STRENGTH
UPVC pipes have great tensile strength yet they are flexible enough to with stand displacements in the pipe line. They will not dent or flatten under pressure.

LIGHT WEIGHT
UPVC pipes are incredibly light. Their specific weight is one fifth that of steel pipe this cuts down trans-potation costs and facilitates the installation of pipe and reduces its cost.

EASE OF INSTALLATION
UPVC pipes are quick and easy to install, with a complete range of fittings using solvent cement or rubber joints are leak proof UPVC pipes can be cut easily for installation.

EASY OF MAINTENANCE
UPVC pipes can be quickly repaired with minimum complication and cost.

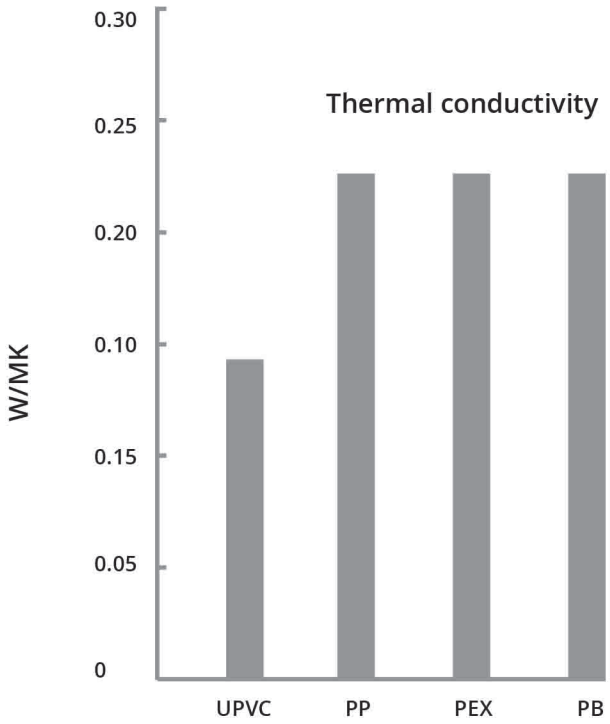
FIRE PROOF
UPVC pipes will not support combustion. In the event of fire, flames are unable to travel along the pipe. It is self-extinguishing.

INSULATOR
UPVC pipes are ideal for electric conduits. Because UPVC itself is an integral insulator, it eliminates the possibility of electrolytic corrosion which so often destroys underground piping.

PROVEN EXPERIENCE
UPVC pipes have been used worldwide for 45 years in all climates. The experience that many of its users have proved is its supreme quality, economy, ease of installation, and its non – corrosive qualities.

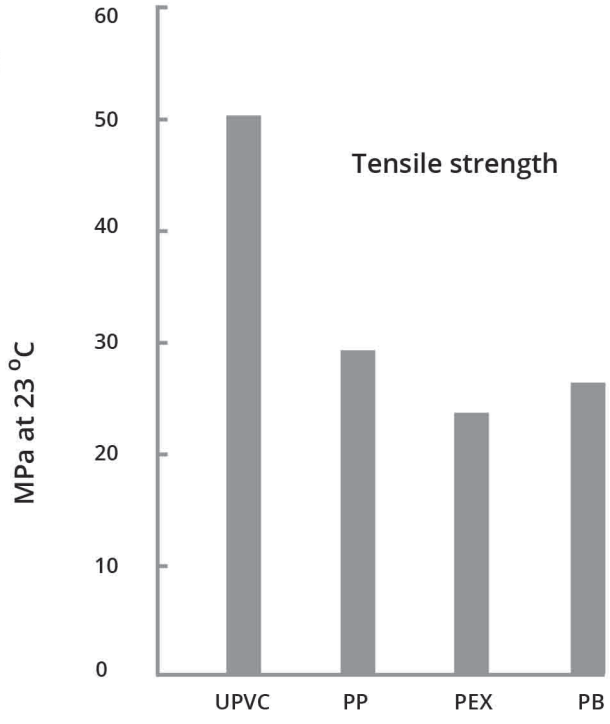
LOWER THERMAL CONDUCTIVITY

Reduced heat losses

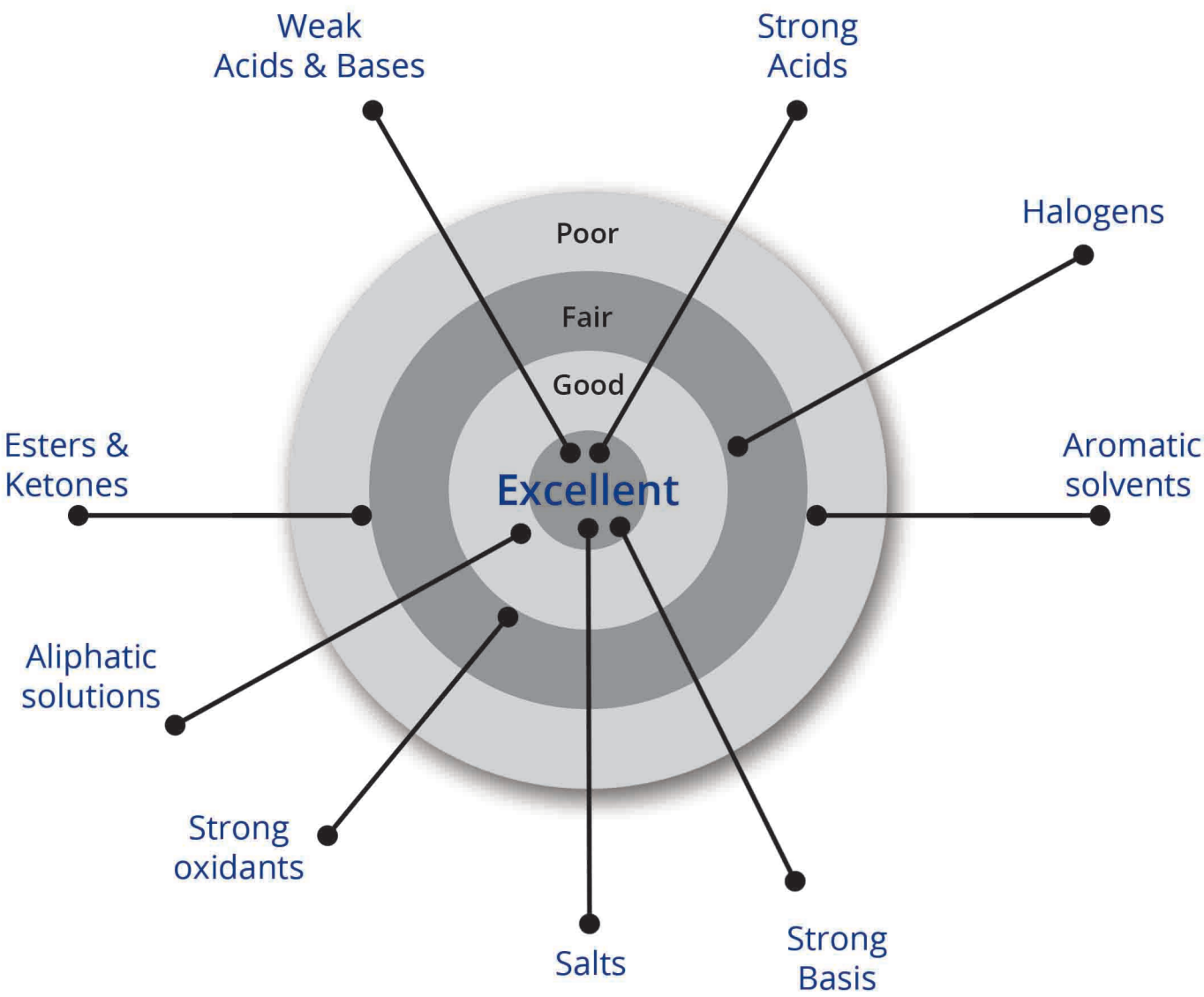


TOUGH, RIGID MATERIAL

UPVC has a much higher strength/modulus than other thermoplastics used in plumbing applications



PVC EXCELLENT CHEMICAL RESISTANCE



MATERIAL

Unplasticized Polyvinyl Chloride (UPVC)

General prperties	upvc value	UNITS
Density	>	g/cm³
Water absorption	<4	mg/cm²
Flammability	self extinguishing	

Mechanical Properties

Ultimate Tensile Strength	492	kg/cm²
Compressive Strength	668	kg/cm²
Flexural strength	950	kg/cm²
Modulus of Elasticity	2.7×10^{4}	kg/cm²
Impact Strength (Sharpy)	No Break > 10 %	
Shore Hardness (Rockwell)	115	R

Thermal Properties

Softening Point		
v.s.t 5 kg	pipes ⩾ 79° fittings ⩾ 76°	°c
Max. Operating temperature	60	°c
Coefficient of Thermal Expansion	3×10^{-5}	In/In/˚f
Specific Heart	0.25	Cal/g.˚c
Thermal Conductivity	0.13	Kcal/m.h.˚c

Electrical Properties

Volume Resistivetly	$> 10^{14}$	Ohm.cm
Surface Resistance	$> 10^{12}$	Ohm
Dielctric Strength	> 40	Kv/mm
Power Factor (at 10 cycle)	3.3	

UPVC are non -conductor of electricity and are not subjected to galvanic or electrolytic attack .

UPVC PIPES DIMENSIONS

UPVC pipes according to German Standards DIN 8061 / 8062
Applications: potable water, irrigation, and industrial uses.

Class V 16 bar		Class IV 10 bar		Class III 6 bar		Class I I 4 bar		Class I 2bar		Socket depth mm	Nominal Outside Diameter mm
NO.wt KgLm	NO.thick of Wall mm	NO.wt KgLm	NO.thick of Wall mm	NO.wt KgLm	NO.thick of Wall mm	NO.wt KgLm	NO.thick of Wall mm	NO.wt KgLm	NO.thick of Wall mm		
0.045	1.o	-	-	-	-	-	-	-	-	-	10
0.055	1	-	-	-	-	-	-	-	-	-	12
0.09	1.2	-	-	-	-	-	-	-	-	-	16
0.137	1.5	-	-	-	-	-	-	-	-	-	20
0.212	1.9	0.174	1.5	-	-	-	-	-	-	-	25
0.342	2.4	0.264	1.8	-	-	-	-	-	-	-	32
0.525	3	0.35	1.9	0.334	1.8	-	-	-		-	40
0.809	3.7	0.552	2.4	0.422	1.8	-	-	-	-	75	50
1.289	4.7	0.854	3	0.562	1.9	-	-	-	-	100	63
1.82	5.6	1.22	3.6	0.782	2.2	0.642	1.8	-	-	110	75
2.61	6.7	1.75	4.3	1.13	2.7	774	1.8	-	-	110	90
3.9	8.2	2.61	5.3	1.64	3.2	1.16	2.2	0.95	1.8	115	110
5.01	9.3	3.34	6	2.13	3.7	1.48	2.5	1.08	1.8	120	125
6.27	10.4	4.18	6.7	2.65	4.1	1.84	2.8	1.21	1.8	125	140
8.17	11.9	5.47	7.7	3.44	4.7	2.41	3.2	1.39	1.8	132	160
10.4	13.4	6.88	8.7	4.37	5.3	3.02	3.6	1.57	1.8	145	180
12.8	14.9	8.51	9.6	5.37	5.9	3.7	4	1.74	1.8	145	200
16.1	16.7	10.8	10.8	6.76	6.6	4.7	4.5	1.96	1.8	152	225
19.9	18.6	13.2	11.9	8.31	7.3	5.65	4.9	2.4	2	160	250
24.9	20.8	16.6	13.4	10.4	8.2	7.11	5.5	3.11	2.3	170	280
31.5	23.4	20.9	15	13.2	9.2	9.02	6.2	3.78	2.5	180	315
39.9	26.3	26.5	16.9	16.7	10.4	11.4	7	4.87	2.9	180	355
50.8	29.7	33.7	19.1	21.1	11.7	14.5	7.9	6.1	3.2	200	400
-	-	42.7	21.5	26.8	13.2	18.3	8.9	7.65	3.6	200	450
-	-	52.6	23.9	32.9	14.6	22.4	9.8	9.37	4	250	500
-	-	65.8	26.7	41.4	16.4	28.1	11	11.8	4.5	260	560
-	-	83.2	30	52.2	18.4	35.7	12.4	14.7	5	300	630
-	-	-	-	66.1	20.7	45.3	14	18.9	5.7	320	710
-	-	-	-	83.9	23.3	57.2	15.7	23.9	6.4	360	800

UPVC pipes according to American Standards ASTM D 2241 (SDR) Series

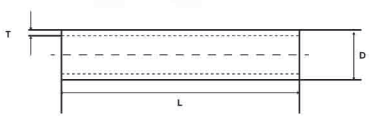
			Wall Thickness				
-	-	-					
-	-	-	SDR 21	SDR 26	SDR 32.5	SDR 41	SDR 64
Item No.	Nominal Size (inch)	Outside (D) mm	(13.8 Bar)	(11.0 Bar)	(8.6 Bar)	(6.9 Bar)	(4.3 Bar)
1	1/ 2"	21.34	-	-	-	-	-
2	3/ 4"	26.67	1.52	-	-	-	-
3	1"	33.40	1.60	1.52	-	-	-
4	1 1/ 4"	42.16	2.01	1.63	1.52	-	-
5	1 1/ 2"	48.26	2.29	1.85	1.52	-	-
6	2"	60.32	2.87	2.31	1.85	-	-
7	3"	88.90	4.24	3.43	2.74	2.16	-
8	4"	114.30	5.44	4.39	3.51	2.79	1.78
9	6"	168.28	8.03	6.48	5.18	4.11	2.64
10	8"	219.08	10.41	8.43	6.73	5.33	3.43

PIPE SUPPLY WATER SYSTEM

New

CODE NO.	D	T	T
2025020354	32	1.8	6
2025020355	32	2.4	6
2025020356	48	2.5	6
2025020357	48	3.7	6
2025020358	60	2.7	6
2025020359	60	3.9	6
2025020360	75	3	6
2025020361	75	4	6
2025020362	75	5	6
2025020365	110	3	6
2025020366	110	4	6
2025020357	110	5	6
2025020371	160	3	6
2025020372	160	4	6
2025020373	160	5	6

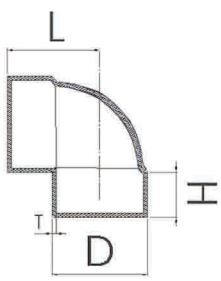
CODE NO.	D	T	L
2025020463	90	3	6
2025020464	90	4	6
2025020468	114	3	6
2025020469	114	4	6
2025020470	114	5	6
2025020474	168	4	6
2025020475	168	5	6



ELBOW 90

β=90

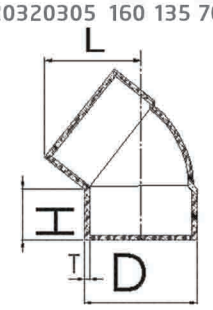
CODE NO.	D	L	H	T
2020120301	48	55	30	4
2020120302	60	70	35	4
2020120303	75	92	45	4.5
2020120304	110	115	52	5.5
2020120305	160	160	70	5.5



ELBOW 45

β=45

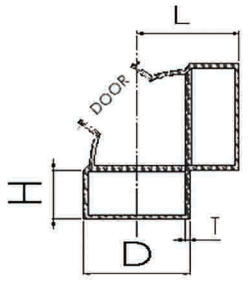
CODE NO.	D	L	H	T
2020320301	48	50	30	3.5
2020320302	60	60	40	4
2020320303	75	70	45	4
2020320304	110	94	55	4.5
2020320305	160	135	70	5.5



ELBOW 90

With Access β=90

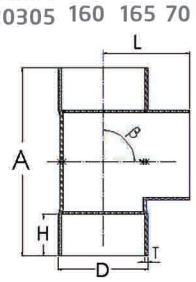
CODE NO.	D	L	H	T	DOOR
2020220302	60	70	35	4	75
2020220303	75	92	45	4.5	75
2020220304	110	115	52	5.5	110
2020220305	160	160	70	5.5	100



TEE 90

β=90

CODE NO.	D	L	H	T	A
2020420301	48	60	30	3.7	118
2020420302	60	72	38	4	145
2020420303	75	90	45	4.5	180
2020420304	110	112	50	5.5	230
2020420305	160	165	70	6	320

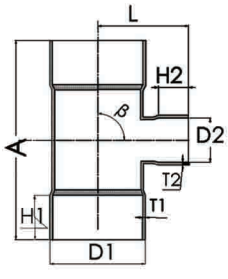


TEE 90

Reducer β=90

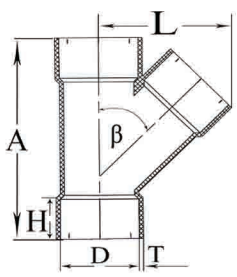
CODE NO.	D1	T1	H1	D2	T2
2020620307	75	4.5	45	60	4
2020620308	110	5.5	50	60	4
2020620309	110	5.5	50	75	4.5
2020620310	160	6	70	110	5.5

H2	L	A
38	87	178
38	117	214
45	117	214
50	144	278



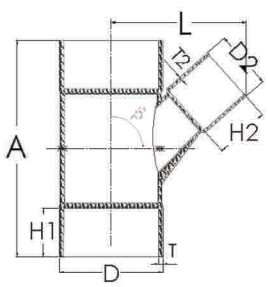
TEE 45
β=45

CODE NO.	D	L	H	T	A
2020820301	48	82	30	3.7	140
2020820302	60	108	38	4	170
2020820303	75	134	46	4.5	230
2020820304	110	186	52	5.5	280
2020820305	160	257	70	6.5	380



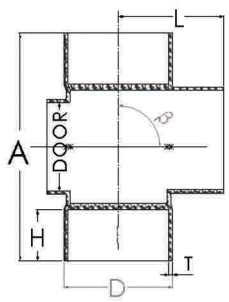
TEE 45
Reducer β=45

CODE NO.	D	D2	L	H1	H2	T1	T2	A
2020920308	110	60	157	50	45	6	5	220
2020920310	160	110	240	70	50	6.5	5.5	350



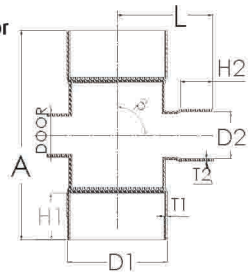
TEE 90
With Door β=90

CODE NO.	D	L	H	T	A	DOOR
2020520303	75	90	45	4.5	180	75
2020520304	110	112	50	5.5	230	110
2020520305	160	165	70	6	320	110



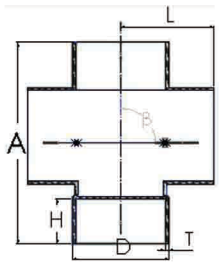
TEE 90
Reducer With Door β=90

CODE NO.	D1	T1	H1	D2	T2	H2	L	A	Door
2020620307	75	4.5	45	60	4	38	87	178	75
2020620308	110	5.5	50	60	4	38	117	214	75
2020620309	110	5.5	50	75	4.5	45	117	214	75
2020620310	160	6	70	110	5.5	50	144	278	110



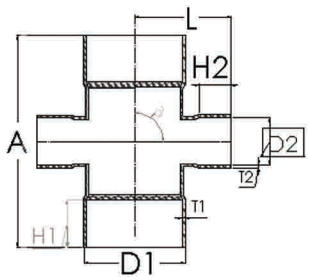
Tee +90
β=90

CODE NO.	D	L	H	T	A
2021020303	75	87	45	4.5	178
2021020304	110	115	45	5	230



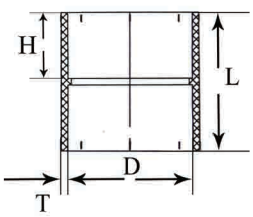
Tee +90
Reducer β=90

CODE NO.	D1	D2	L	H1	H2	T1	T2
2021120308	110	60	117	50	38	5	5



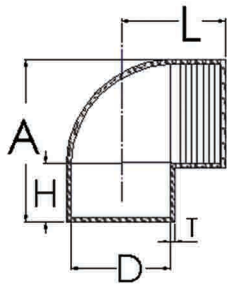
SOCKET

CODE NO.	D	L	H	T
2021320301	48	60	30	4.5
2021320302	60	80	40	4.5
2021320303	75	95	45	4.5
2021320304	110	100	50	5
2021320305	160	145	70	6



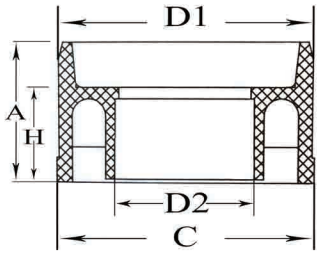
ELBOW
With Thread β=90

CODE NO.	D	D	H	T	A
2021220301	48	55	30	4	85



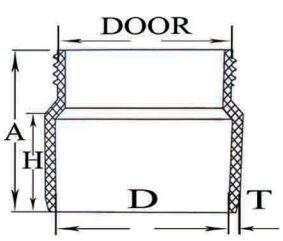
REDUCING BRUSH

CODE NO.	D1	D2	C	A	H
2021620306	60	48	59	45	35
2021620307	75	60	74	45	44
2021620308	110	60	109	60	43
2021620309	110	75	109	60	42
2021620310	160	110	158	77	49



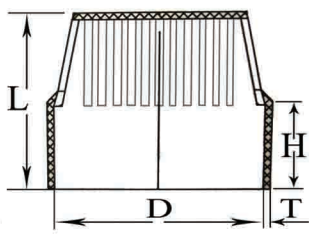
CLEANING INSERT

CODE NO.	D	A	H	T	DOOR
2021720302	60	63	30	5.5	55
2021720303	75	70	40	5.5	75
2021720304	110	91	50	5.5	110
2021720305	160	120	75	6	110



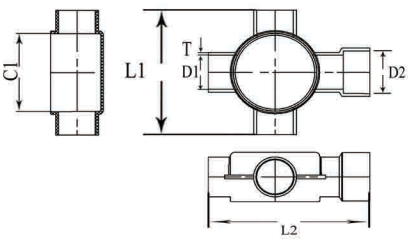
AIR VENT

CODE NO.	D	L	H	T
2021520302	60	80	35	3
2021520303	75	100	45	3.5
2021520304	110	130	50	5.5



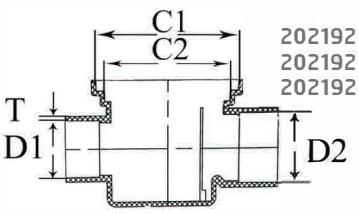
FLOOR DRAIN
7 cm

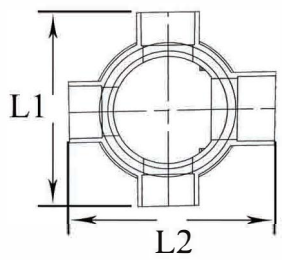
CODE NO.	D1	D2	T	C1	L1	L2
2022020306	48	60	4.5	110	1475	210

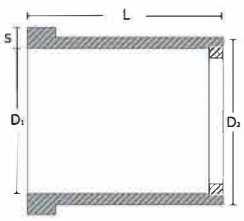


FLOOR DRAIN
10 cm

CODE NO.	D1	D2	T	C1	C2	L1	L2
2021920306	48	60	4.5	125	110	170	185
2021920311	60	60	4.5	\	110	180	190
2021920307	75	60	4.5	\	110	180	190

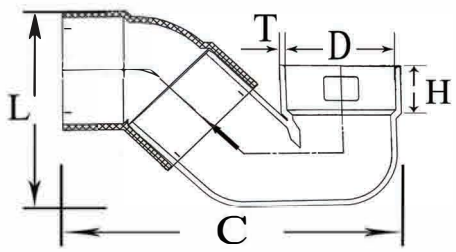






BUSHING
110/114

CODE NO.	D1	D2	L	S
2022120314	11.4	11	4	4.4

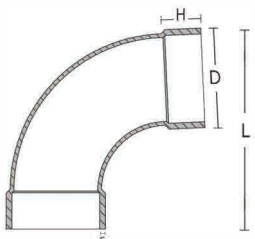


SIPHON

CODE NO.	D	T	H	C	L
2021820304	110	4.5	50	290	220

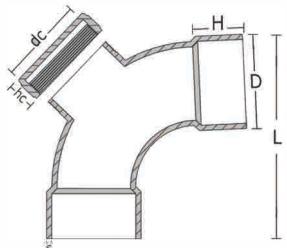
ELBOW 87.5
β=87.5

CODE NO.	D	L	S	H
2020120301	5.6	10.2	4	3.5
2020120302	6.9	12.6	4	3.9
2020120303	8.5	15	5	4.5
2020120304	12.3	20.9	6.5	5.6
2020120305	17.3	29	6.5	8.1



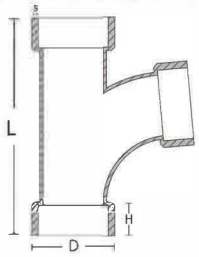
ELBOW 87.5
With Access Cap β=87.5

CODE NO.	D	L	S	H	Hc	DC
2020220302	6.8	12.6	4	4	2.2	7.4
2020220303	8.5	15.2	5	4.6	2.2	7.4
2020220304	12.2	20.8	6	5.5	2.6	10.8
2020220305	17.2	22.6	6	8.2	2.6	10.8



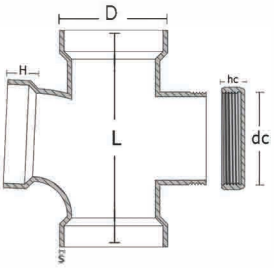
TEE 87.5
β=87.5

CODE NO.	D	L	S	H
2020420301	5.6	12.6	4.2	3.5
2020420302	6.8	15.3	4	4
2020420303	8.4	19	4.5	4.6
2020420304	12.2	24	6	5.4
2020420305	17.2	34.5	6	7.7



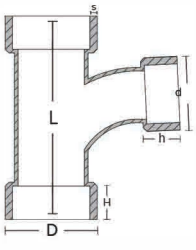
TEE 87.5
With Access β=87.5

CODE NO.	D	L	S	H	HC	DC
2020520302	4	15.3	4	4	2.2	7.4
2020520303	6.4	19	4	4.5	2.2	7.4
2020520304	12.2	24	6	5.3	2.6	10.8
2020520305	17.2	34.5	6	7.7	2.6	10.8



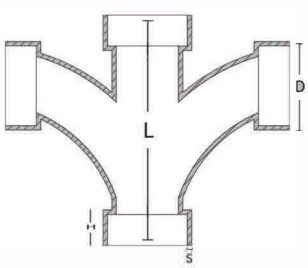
TEE 87.5
Reducer β=87.5

CODE NO.	D	d	L	S	h	H
2020520307	8.5	6.8	16.6	4	4.5	4
2020520308	12.2	7	20	5	4	5
2020520309	12	8.6	19	5	4.2	5.5
2020520310	17.1	12.2	28.7	5.55		7.7



DOUBLE SANTIAR 87.5
Reducer β=87.5

CODE NO.	D	L	S	S
2021120308	8.4	18.7	4.5	5
2021120309	12	24.5	5	5.3



Chemical Resistance Guide

Chemical	Formula	Conc.	Temp.	uPVC	PP
		(%)	(°C)	-	-
ACETALDEHYDE	CH3CHO	100	25	3	2
		-	60	3	-
		-	100	-	-
- AQUEOUS SOLUTION		40	25	3	1
		-	60	3	2
		-	100	-	-
ACETIC ACID	CH3COOH	≤25	25	1	1
		-	60	2	1
		-	100	-	1
		30	25	1	1
		-	60	2	1
		-	100	-	1
		60	25	1	1
		-	60	2	1
		-	100	-	2
		80	25	1	1
		-	60	2	3
		-	100	-	3
- GLACIAL		100	25	2	1
		-	60	3	2
		-	100	-	3
ACETIC ANHYDRIDE	(CH3CO)2O	100	25	3	1
		-	60	3	2
		-	100	-	3
ACETONE	CH3COCH3	10	25	3	1
		-	60	3	3
		-	100	-	3
		100	25	3	1
		-	60	3	3
		-	100	-	3
ACETOPHENONE	CH3COC6H5	nd	25	-	1
		-	60	-	3
		-	100	-	-
ACRYLONITRILE	CH2CHCN	technically pure	25	-	1
		-	60	3	1
		-	100	-	-
ADIPIC ACID	(CH2CH2CO2H)2	sat.	25	1	1
- AQUEOUS SOLUTION		-	60	2	1
		-	100	-	-
ALLYL ALCOHOL	CH2CHCH2OH	96	25	2	1
		-	60	3	1
		-	100	-	1
ALUM	Al2(SO4)3.K2SO.nH2O	dil	25	1	1
- AQUEOUS SOLUTION		-	60	2	1
		-	100	-	-
	Al2(SO4)3.K2SO4.nH2O	sat	25	-	1
		-	60	2	1
		-	100	-	-
ALUMINIUM	AlCl3	all	25	1	-
- CHLORIDE		-	60	1	-
		-	100	-	-
- FLUORIDE	AlF3	100	25	1	-
		-	60	1	-
		-	100	-	-
- HYDROXIDE	Al(OH4)3	all	25	1	-
		-	60	1	-
		-	100	-	-
- NITRATE	Al(NO2)3	nd	25	1	-
		-	60	1	-
		-	100	-	-
- SULPHATE	Al(SO4)3	deb	25	1	1
		-	60	1	1
		-	100	-	-
		sat	25	1	1
		-	60	1	1
		-	100	-	2

Chemical	Formula	Conc.	Temp.	uPVC	PP
		(%)	(°C)	-	-
AMMONIA	NH3	deb	25	1	1
- AQUEOUS SOLUTION		-	60	2	-
		-	100	-	-
		sat	25	1	1
		-	60	2	-
		-	100	-	-
- DRY GAS		100	25	1	1
		-	60	1	1
		-	100	-	-
- LIQUID		100	25	2	1
		-	60	3	1
		-	100	-	-
AMMONIUM	CH3COONH4	sat	25	-	1
- ACETATE		-	60	2	1
		-	100	-	-
- CARBONATE	(NH4)2CO3	all	25	1	1
		-	60	2	1
		-	100	-	-
- CHLORIDE	NH4Cl	sat	25	1	1
		-	60	1	1
		-	100	-	2
- FLUORIDE	NH4F	25	25	1	1
		-	60	2	1
		-	100	-	-
- HYDROXIDE	NH4OH	28	25	-	1
		-	60	2	1
		-	100	-	-
- NITRATE	NH4NO3	sat	25	1	1
		-	60	1	1
		-	100	-	1
- PHOSPHATE DIBASIC	NH4(HPO4)2	all	25	1	1
		-	60	1	1
		-	100	-	-
- PHOSPHATE META	(NH4)4P4O12	all	25	1	1
		-	60	1	1
		-	100	-	-
- PHOSPHATE TRI	(NH4)2HPO4	all	25	1	1
		-	60	1	1
		-	100	-	-
- PERSULPHATE	(NH4)2S2O8	all	25	1	1
		-	60	1	-
		-	100	-	-
- SULPHIDE	(NH4)2S	deb	25	1	1
		-	60	2	1
		-	100	-	-
		sat	25	1	1
		-	60	1	1
		-	100	-	-
- SULPHYDRATE	NH4OHSO4	dil	25	1	1
		-	60	2	1
		-	100	-	-
		sat	25	1	1
		-	60	1	1
		-	100	-	-
AMYLACETATE	CH3CO2CH2(CH2)3CH3	100	25	3	2
		-	60	3	-
		-	100	-	-
AMYLALCOHOL	CH3(CH2)3CH2OH	nd	25	1	1
		-	60	2	1
		-	100	-	1
ANILINE	C	H5NH2	25	3	1
	6	-		-	-
		-	60	3	1
		-	100	-	-
- CHLORHYDRATE	C	H5NH2HCl	25	2	2
	6	-		-	-
			60	3	2
			100	-	3

Class 1: High Resistance Class 2: Limited Resistance Class 3: No Resistance.

Chemical	Formula	Conc.	Temp.	uPVC	PP
		(%)	(°C)	-	-
CARBON	CO2	-	-	25	1
- DIOXIDE		-	-	60	1
AQUEOUS SOLUTION		-	-	100	-
- GAS		-	100	25	1
		-	-	60	1
		-	-	100	-
- DISULPHIDE	CS2	-	100	25	2
		-	-	60	-
		-	-	100	-
- MONOXIDE	CO	-	100	25	1
		-	-	60	1
		-	-	100	-
- TETRACHLORIDE	CCl4	-	100	25	2
		-	-	60	3
		-	-	100	-
CARBONIC ACID	H2CO3	-	sat	25	-
- AQUEOUS SOLUTION		-	-	60	-
		-	-	100	-
- DRY		-	100	25	-
		-	-	60	-
		-	-	100	-
- WET		-	all	25	-
		-	-	60	-
		-	-	100	-
CARBON OIL		-	comm	25	-
		-	-	60	-
		-	-	100	-
CHLORAMINE		-	dil	25	1
		-	-	60	-
		-	-	100	-
CHLORIC ACID	HClO3	-	20	25	1
		-	-	60	3
		-	-	100	-
CHLORINE	Cl2	-	sat	25	-
		-	-	60	-
		-	-	100	-
- DRY GAS		-	10	25	-
		-	-	60	-
		-	-	100	-
		-	100	25	-
		-	-	60	-
		-	-	100	-
- WET GAS		-	5g/m3	25	-
		-	-	60	-
		-	-	100	-
		-	10g/m3	25	-
		-	-	60	-
		-	-	100	-
		-	66g/m3	25	-
		-	-	60	-
		-	-	100	-
- LIQUID		-	100	25	3
		-	-	60	-
		-	-	100	-
CHLOROACETIC ACID	ClCH2COH	-	85	25	2
		-	-	60	3
		-	-	100	-
		-	100	25	3
		-	-	60	3
		-	-	100	-
CHLOROBENZENE	C	H5Cl	all	25	-
	6	-	-	-	-
		-	-	60	-
		-	-	100	-
CHLOROFORM	CHCl3	-	all	25	2
		-	-	60	-
				100	-

Chemical	Formula	Conc.	Temp.	uPVC	PP
		(%)	(°C)		
CHLOROSULPHONIC	ClHSO3	-	100	25	3
ACID		-	-	60	3
		-	-	100	-
CHROME ALUM	KCr(SO4)2	-	nd	25	1
		-	-	60	1
		-	-	100	-
CHROMIC ACID	CrO3+H2O	-	10	25	2
		-	-	60	3
		-	-	100	-
		-	30	25	2
		-	-	60	3
		-	-	100	-
		-	50	25	2
		-	-	60	3
		-	-	100	-
CHROMIC SOLUTION	CrO3+H2O+H2SO4	-	5015/35/	25	3
		-	-	60	3
		-	-	100	-
CITRIC ACID	C	H4(OH)(CO2H)	50	25	1
	3	3	-		-
AQ. SOL. min		-	-	60	1
		-	-	100	-
COPPER	CuCl2	-	sat	25	1
- CHLORIDE		-	-	60	1
		-	-	100	-
- CYANIDE	CuCN2	-	all	25	-
		-	-	60	-
		-	-	100	-
- FLUORIDE	CuF2	-	all	25	1
		-	-	60	1
		-	-	100	-
- NITRATE	Cu(NO3)2	-	nd	25	1
		-	-	60	1
		-	-	100	-
- SULPHATE	CuSO4	-	dil	25	1
		-	-	60	1
		-	-	100	-
		-	sat	25	1
		-	-	60	1
		-	-	100	-
		-	-	60	-
COTTONSEED OIL		-	comm	25	-
		-	-	60	-
		-	-	100	-
CRESOL	CH3C6H4OH	-	£90	25	1
		-	-	60	-
		-	-	100	-
		-	>90	25	-
		-	-	60	-
		-	-	100	-
CRESYLIC ACID	CH3C6H4COOH	-	50	25	-
		-	-	60	-
		-	-	100	-
CYCLOHEXANE	C6H12	-	all	25	1
		-	-	60	-
		-	-	100	-
CYCLOHEXANONE	C6H10O	-	all	25	1
		-	-	60	-
		-	-	100	-
DECAHYDRONAFTALENE	C10H18	-	nd	25	1
		-	-	60	2
		-	-	100	-
DEMINERALIZED WATER		-	100	25	1
		-	-	60	1
		-	-	100	-
DEXTRINE	C	H12OCH2O	nd	25	1
	6	-	-	-	-
		-	-	60	1
		-	-	100	-

Class 1: High Resistance Class 2: Limited Resistance Class 3: No Resistance.

Chemical	Formula	Conc.	Temp.	uPVC	PP
		(%)	(°C)		
ANTIMONY	SbCl3	100	25	1	1
- TRICHLORIDE			60	1	1
			100	-	-
ANTHRAQUINONE		suspension	25	1	1
SULPHONIC ACID			60	2	1
			100	-	-
AQUA REGIA	HC+HNO3	100	25	2	3
			60	2	3
			100	-	3
ARSENIC ACID	H3AsO4	deb	25	1	1
			60	2	1
			100	-	-
		80	25	1	1
			60	2	1
			100	-	2
BARIUM		all	25	1	1
- CARBONATE	BaCO3		60	1	1
			100	-	-
- CHLORIDE	BaCl2	10	25	1	1
			60	1	1
			100	-	-
- HYDROXIDE	Ba(OH)2	all	25	1	1
			60	1	1
			100	-	-
- SULPHATE	BaSO4	nb	25	1	1
			60	1	1
			100	-	-
- SULPHIDE	BaS	sat	25	1	1
			60	1	-
			100	-	-
BEER		comm	25	1	-
			60	1	-
			100	-	-
BENZALDEHYDE	C6H5CHO	nd	25	3	3
			60	3	3
			100	-	-
BENZENE	C6H6	100	25	3	3
			60	3	3
			100	-	3
- LIGROIN		2080/	25	3	3
			60	3	3
			100	-	-
- MONOCHLORINE	C6H5Cl	technically pure	25	3	1
			60	-	-
			100	-	-
BENZOIC ACID	C6H5COOH	sat	25	1	1
			60	2	1
			100	-	3
BENZYL ALCOHOL	C6H5CH2OH	100	25	1	1
			60	2	2
			100	-	-
BLEACHING LYE	NaOCl+NaCl	12.50%	25	1	2
		Cl	60	2	-
			100	-	-
BORIC ACID	H3BO3	deb	25	1	1
			60	2	1
			100	-	1
		sat	25	1	1
			60	2	1
			100	-	1
BRINE		comm	25	1	1
			60	1	-
			100	-	-
BROMIC ACID	HBrO3	10	25	1	-
			60	1	-
			100	1	-

Chemical	Formula	Conc.		Temp.	uPVC	PP
				(°C)		
BROMINE	Br2		(%)	25	3	3
- LIQUID			100	60	3	3
			-	100	-	3
- VAPOURS			-	25	2	3
			low	60	-	3
			-	100	-	-
BUTADIENE	C4H6		-	25	1	1
			100	60	1	3
			-	100	-	-
BUTANEDIOL	CH3CH2CHOHCH2OH		-	25	1	1
AQUEOUS			10	60	3	-
			-	100	-	-
		concentrated	-	25	2	2
			-	60	3	2
			-	100	-	-
BUTANE	C	H10	-	25	1	1
		4	10	-	-	-
GAS			-	-	60	1
			-	-	100	-
BUTYL		CH3CO2CH2CH2CH2CH3	-	100	25	3
- ACETATE			-	-	60	3
				-	100	-
- ALCOHOL		C	-	-	25	1
		4	H9OH	-	-	-
			-	-	60	1
			-	-	100	-
- PHENOL		C	-	100	25	3
		4	H9C6H4OH	-	-	-
			-	-	60	3
			-	-	100	-
BUTYLENE GLYCOL		C4H6(OH)2	-	100	25	1
			-	-	60	1
			-	-	100	-
BUTYRIC ACID		C2H5CH2COOH	-	20	25	1
			-	-	60	2
			-	-	100	-
			-	concentrated	25	3
			-	-	60	3
			-	-	100	-
CALCIUM		Ca(HSO3)2	-	nd	25	1
- BISULPHITE			-	-	60	1
			-	-	100	-
- CARBONATE		CaCO3	-	all	25	1
			-	-	60	1
			-	-	100	-
- CHLORATE		CaHCl	-	nd	25	1
			-	-	60	1
			-	-	100	-
- CHLORIDE		CaCl2	-	all	25	1
			-	-	60	1
			-	-	100	-
- HYDROXIDE		Ca(OH)2	-	all	25	-
			-	-	60	-
			-	-	100	-
- HYPOCHLORITE		Ca(OCl)2	-	sat	25	1
			-	-	60	1
			-	-	100	-
- NITRATE		Ca(NO3)2	-	50	25	1
			-	-	60	-
			-	-	100	-
- SULPHATE		CaSO4	-	nd	25	1
			-	-	60	1
			-	-	100	-
- SULPHIDE		CaS	-	sat	25	2
			-	-	60	2
			-	-	100	-

Class 1: High Resistance Class 2: Limited Resistance Class 3: No Resistance.

Chemical	Formula	Conc.	Temp.	uPVC	PP
		(%)	(°C)		
HEXANE	C6H14	100	25	1	1
			60	2	2
			100		
HYDROBROMIC ACID	HBr	≤10	25	1	1
			60	2	1
			100		3
		48	25	1	1
			60	2	1
			100		3
HYDROCHLORIC ACID	HCl	≤25	25	1	1
			60	2	1
			100		1
		≤37	25	1	1
			60	1	1
			100		2
HYDROCYANIC ACID	HCN	deb	25	1	1
			60	1	1
			100		
HYDROFLUORIC ACID	HF	10	25	1	1
			60	2	1
			100		3
		60	25	2	1
			60	3	3
			100		3
HYDROGEN	H2	all	25		
			60		
			100		
HYDROGEN	H2O2	30	25	1	1
- PEROXIDE			60	1	1
			100		
		50	25	1	1
			60	1	2
			100		
		90	25	1	1
			60	1	2
			100		
- SULPHIDE DRY		sat	25	1	1
			60	2	1
			100		
- SULPHIDE WET		sat	25	1	1
			60	2	1
			100		
HYDROSULPHITE		≤10	25	1	1
			60	2	1
			100		
HYDROXYLAMINE	(H2NOH)2H2SO4	12	25	1	1
SULPHATE			60	1	1
			100		
ILLUMINATING GAS		100	25	1	1
			60		
			100		
IODINE	I2	3	25	2	1
- DRY AND WET			60	3	
			100		
- TINCTURE		>3	25	2	1
			60	3	3
			100		
ISOCTANE	C8H18	100	25	1	2
			60		3
			100		
ISOPROPYL	(CH3)2CHOCH(CH3)2	100	25	2	2
- ETHER			60	3	3
			100		
- ALCOHOL	(CH3)2CHOH	100	25		1
			60	2	1
			100		

Chemical	Formula	Conc.	Temp.	uPVC	PP
		(%)	(°C)		
LACTIC ACID	CH3CHOHCOOH	≤28	25	1	1
			60	2	1
			100		1
LANOLINE		nd	25		1
			60	2	2
			100		
LEAD ACETATE	Pb(CH3COO)2	sat	25	1	1
			60	1	2
			100		2
LINSEED OIL		comm	25	1	1
			60	2	1
			100		
LUBRICATING OILS		comm	25	1	1
			60	1	2
			100		
MAGNESIUM	MgCO3	all	25	1	1
- CARBONATE			60	1	1
			100		
- CHLORIDE	MgCl2	sat	25	1	1
			60	1	1
			100		2
- HYDROXIDE	Mg(OH)2	all	25	1	1
			60	1	1
			100		
- NITRATE	MgNO3	nd	25	1	1
			60	1	1
			100		
- SULPHATE	MgSO4	dil	25	1	1
			60	1	1
			100		
		sat	25	1	1
			60	1	1
			100		
MALEIC ACID	COOHCHCHCOOH	nd	25	1	1
			60	1	1
			100		1
MALIC ACID	CH2CHOH(COOH)2	nd	25	1	1
			60		1
			100		
MERCURIC	HgCl2	sat	25	1	1
- CHLORIDE			60	1	1
			100		
- CYANIDE	HgCN2	all	25	1	1
			60	1	1
			100		
MERCUROUS NITRATE	HgNO3	nd	25	1	1
			60	1	1
			100		
MERCURY	Hg	100	25	1	1
			60	2	1
			100		
METHYL	CH3COOCH3	100	25		1
- ACETATE			60		1
			100		
- ALCOHOL	CH3OH	nd	25	1	1
			60	1	2
			100		2
- BROMIDE	CH3Br	100	25	3	3
			60		3
			100		
- CHLORIDE	CH3Cl	100	25	3	3
			60	3	3
			100		3
- ETHYLKETONE	CH3COCH2CH3	all	25	3	1
			60	3	2
			100		

Class 1: High Resistance Class 2: Limited Resistance Class 3: No Resistance.

Chemical	Formula	Conc.	Temp.	uPVC	PP
		(%)	(°C)		
METHYLAMINE	CH3NH2	32	25	2	1
			60	3	
			100		
METHYLENE	CH2Cl2	100	25	3	3
CHLORIDE			60	3	3
			100		3
METHYL	CH3COOSO4	50	25	1	2
SULPHORIC ACID			60	2	2
			100		3
		100	25	1	3
			60	2	3
			100		3
MILK		100	25	1	1
			60	1	1
			100		1
MINERAL ACIDOULOUS		nd	25	1	1
WATER			60	1	1
			100		1
MOLASSES		comm	25	1	1
			60	2	1
			100		2
NAPHTA		100	25	2	1
			60	3	3
			100		
NAPHTALINE		100	25	1	3
			60		3
			100		3
NICKEL	NiCl3	all	25	1	1
- CHLORIDE			60	1	1
			100		1
- NITRATE	Ni(NO3)2	nd	25	1	1
			60	1	1
			100		2
- SULPHATE	NiSO4	dil	25	1	1
			60	1	1
			100		
		sat	25	1	1
			60	1	1
			100		
NITRIC ACID	HNO3	anhydrous	25	3	3
			60	3	3
			100		3
		20	25	1	1
			60	2	2
			100		3
		40	25	1	2
			60	1	3
			100		3
		60	25	1	2
			60	2	3
			100		3
		98	25	3	3
			60	3	3
			100		3
NITROBENZENE	C6H5NO2	all	25	3	1
			60	3	2
			100		
OLEIC ACID	C8H17CHCH(CH2)7CO2H	comm	25	1	1
			60	1	2
			100		

Chemical	Formula	Conc.	Temp.	uPVC	PP
		(%)	(°C)		
OLEUM		nd	25	3	3
			60	3	3
			100		
- VAPOURS		low	25	3	3
			60	3	3
			100		
		hight	25	3	3
			60	3	3
			100		
OLIVE OIL		comm	25		1
			60	2	1
			100		
OXALIC ACID	HO2CCO2H	10	25	1	1
			60	2	2
			100		2
		sat	25	1	1
			60	1	2
			100		3
OXYGEN	O2	all	25	1	3
			60	1	3
			100		
OZONE	O3	nd	25	1	3
			60	2	3
			100		
PALMITIC ACID	CH3(CH2)14COOH	10	25	1	
			60	1	3
			100		
		70	25	1	
			60	1	3
			100		
PARAFFIN		nd	25		
			60	2	1
			100		
- EMULSION		comm	25	1	3
			60	1	3
			100		
- OIL		nd	25	1	1
			60	1	3
			100		
PERCHLORIC ACID	HClO4	100	25	1	1
			60	2	1
			100		
		70	25	1	1
			60	2	
			100		
PETROL		100	25	1	1
- REFINED			60		3
			100		
- UNREFINED		100	25	1	1
			60	1	3
			100		
PHENOL	C6H5OH	1	25	1	1
- AQUEOUS SOLUTION			60		1
			100		3
		≤90	25	2	1
			60	3	3
			100		3
PHENYL HYDRAZINE	C6H5NHNH2	all	25	3	2
			60	3	2
			100		
- CHLORHYDRATE	C	H5NHNH3Cl	sat 25	1	1
	6				
				60	3
				100	

Class 1: High Resistance Class 2: Limited Resistance Class 3: No Resistance.

Chemical	Formula		Conc.	Temp.	uPVC	PP
			(%)	(°C)		
PHOSPHORIC	H3PO4		≤25	25	1	1
- ACID				60	2	1
				100		1
			≤50	25	1	1
				60	1	1
				100		1
			≤85	25	1	1
				60	1	1
				100		1
- ANHYDRIDE	P2O5		nd	25	1	1
				60	2	1
				100		
PHOSPHORUS	PCl3		100	25	3	1
TRICHLORIDE				60	3	
				100		
PHOTOGRAPHIC			comm	25	1	
- DEVELOPER				60	1	
				100		
- EMULSION			comm	25	1	
				60	1	
				100		
PHTHALIC ACID	C	H4(CO2H)2	50	25		1
	6					
				60	3	1
				100		
PICRIC ACID		HOC6H2(NO2)3	1	25	1	1
				60	1	
				100		
			>1	25	3	3
				60	3	3
				100		
POTASSIUM	K2CrO7		40	25	1	1
- BICHROMATE				60	1	
				100		
- BORATE	K3BO3		sat	25	1	1
				60	2	1
				100		
- BROMATE	KBrO3		nd	25	1	1
				60	2	1
				100		2
- BROMIDE	KBr		sat	25	1	1
				60	1	1
				100		
- CARBONATE	K2CO3		sat	25	1	1
				60	1	
				100		
- CHLORIDE	KCl		sat	25	1	1
				60	1	1
				100		2
- CHROMATE	KCrO4		40	25	1	1
				60	1	1
				100		
- CYANIDE	KCN		sat	25	1	1
				60	1	1
				100		
- FERROCYANIDE		K4Fe(CN)6.3H2O	100	25	1	1
				60	1	1
				100		2
- FLUORIDE	KF		sat	25		1
				60		1
				100		
- HYDROXIDE	KOH		≤60	25	1	1
				60	2	1
				100		1
- NITRATE	KNO3		sat	25	1	1
				60	1	1
				100		

Chemical	Formula		Conc.	Temp.	uPVC	PP
			(%)	(°C)		
- PERBORATE	KBO3	-	all	25	1	1
		-		60	1	
		-		100		
- PERMANGANATE	KMnO4	-	10	25	1	1
		-		60	1	2
		-		100		
- PERSULPHATE	K	S2O8	nd	25	1	1
	2	-				
		-		60	2	1
		-		100		
- SULPHATE	K	SO4	sat	25		1
	2	-				
		-		60	1	1
		-		100		
PROPANE	C	H8	100	25	1	1
	3	-				
- GAS		-		60		
		-		100		
- LIQUID		-	100	25	1	2
		-		60		
		-		100		
PROPYL ALCOHOL	C	H7OH	100	25	1	1
	3	-				
		-		60	2	1	1
		-		100		
PYRIDINE	CH(CHCH)2N	nd		25	3	1	1
		-		60	3	2	3
		-		100		
RAIN WATER		100		25	1	1	1
		-		60	1	1	1
		-		100			1
SEA WATER		100		25	1	1	1
		-		60	1	1	1
		-		100			1
SILICIC ACID	H2SiO3	all		25	1	1	1
		-		60	1	1	1
		-		100			
SILICONE OIL		nd		25	1	1	
		-		60	3	2	
		-		100			
SILVER	AgCN	all		25	1		1
- CYANIDE		-		60	1		1
		-		100			
- NITRATE	AgNO9	nd		25	1	1	1
		-		60	2	1	1
		-		100			1
- PLATING SOLUTION		comm		25	1		1
		-		60	1		
		-		100			
SOAP		high		25	1		1
- AQUEOUS SOLUTION		-		60	2		1
		-		100			
SODIC LYE		£60		25	1		
		-		60	1		
		-		100			
SODIUM	CH3COONa	100		25	1	1	1
- ACETATE		-		60	1	1	1
		-		100			1
- BICARBONATE	NaHCO3	nd		25	1	1	1
		-		60	1	1	1
		-		100			1
- BISULPHITE	NaHSO3	100		25	1	1	1
		-		60	1	1	1
		-		100			1
- BROMIDE	NaBr	sat		25	1		1
		-		60	1		1
		-		100			
- CARBONATE	Na2CO3	sat		25	1	1	1
				60	1	1	2
				100			2

Class 1: High Resistance Class 2: Limited Resistance Class 3: No Resistance.

Chemical	Formula	Conc.	Temp.	uPVC	PP
		(%)	(°C)		
- CHLORATE	NaClO3	nd	25	1	1
			60	2	
			100		
- CHLORIDE	NaCl	dil	25	1	1
			60	2	1
			100		
		sat	25	1	1
			60	1	1
			100		3
- CYANIDE	NaCN	all	25	1	1
			60	1	1
			100		
- FERROCYANIDE	Na4Fe(CN)6	sat	25	1	
			60	1	
			100		
- FLUORIDE	NaF	all	25	1	
			60	1	
			100		
- HYDROXIDE	NaOH	60	25	1	1
			60	1	1
			100		1
- HYPOCHLORITE	NaOCl	deb	25	1	1
			60	2	2
			100		
- HYPOSULPHITE	Na2S3O3	nd	25	1	1
			60	1	
			100		
- NITRATE	NaNO3	nd	25	1	1
			60	1	1
			100		
- PERBORATE	NaBO3H2O	all	25	1	1
			60	1	
			100		
- PHOSPHATE di	Na2HPO4	all	25	1	1
			60	1	1
			100		1
- PHOSPHATE tri	Na3PO4	all	25	1	1
			60	1	1
			100		1
- SULPHATE	Na2SO4	dil	25	1	1
			60	1	1
			100		
		sat	25	1	1
			60	1	1
			100		
- SULPHIDE	Na2S	dil	25	1	1
			60	2	1
			100		
		sat	25	1	1
			60	1	1
			100		
- SULPHITE	NaSO3	sat	25	1	1
			60	1	1
			100		
STANNIC CHLORIDE	SnCl4	sat	25	1	1
			60	1	1
			100		
STANNOUS CHLORIDE	SnCl2	dil	25	1	1
			60	1	1
			100		
STEARIC ACID	CH3(CH2)16CO2H	100	25	1	2
			60	1	2
			100		
SUGAR SYRUP		high	25	1	1
			60	2	
			100		

Chemical	Formula	Conc.		Temp.	uPVC	PP
			(%)	(°C)		
SULPHUR	S		100	25	1	1
				60	2	1
				100		
- DIOXIDE AQUEOUS	SO2		sat	25	1	1
				60	2	
				100		
- DIOXIDE DRY			all	25	1	1
				60	1	1
				100		3
- DIOXIDE LIQUID			100	25	2	
				60	3	
				100		
- TRIOXIDE	SO3		100	25	2	3
				60	2	3
				100		
SULPHURIC ACID	H2SO4		≤10	25	1	1
				60	1	1
				100		1
			≤75	25	1	1
				60	2	2
				100		2
			≤90	25	1	1
				60	2	2
				100		3
			≤96	25	2	3
				60	3	3
				100		3
- FUMING	H2C6H4(OH)2			25	2	3
				60	3	3
				100		3
- NITRIC AQUEOUS SOLUTION	H2SO4+HNO3+H20		483/49/	25	1	3
				60	2	3
				100		3
			500/50/	25	2	3
				60	3	3
				100		3
			1070/20/	25	1	2
				60	1	2
				100		
TALLOW EMULSION			comm	25	1	1
				60	1	2
				100		
TANNIC ACID	C14H10O9		10	25	1	
				60	1	
				100		
TARTARIC ACID	HOOC(CHOH)2COOH		all	25	1	1
				60	2	1
				100		
TETRACHLORO - ETHANE	CHCl2CHCl2		nd	25	3	2
				60	3	3
				100		
- ETHYLENE	CCl2CCl2		nd	25	3	2
				60	3	3
				100		
TETRAETHYLLEAD	Pb(C2H5)4		100	25	1	1
				60	2	
				100		
TETRAHYDROFURAN	C4H8O		all	25	3	2
				60	3	3
				100		3
THIONYL CHLORIDE	SOCl3			25	3	3
				60		
				100		
THIOPHENE	C4H4S		100	25	3	2
				60	3	3
				100		

Class 1: High Resistance Class 2: Limited Resistance Class 3: No Resistance.

Chemical	Formula	Conc.	Temp.	uPVC	PP
		(%)	(°C)		
DIBUTYLPHTALATE	C6H4(CO2C4H9)2	100	25	3	3
			60	3	3
			100		
DICHLOROACETIC	Cl2CHCOOH	100	25	1	1
ACID			60	2	2
			100		
DICHLOROETHANE	CH2ClCH2Cl	100	25	3	1
			60	3	
			100		
DICHLOROETHYLENE	ClCH2Cl	100	25	3	2
			60	3	
			100		
DIETHYL ETHER	C	H5OC2H5	100	25	3	1
		2				
			60	3	1
			100		
DIGLYCOLIC ACID		(CH2)2O(CO2H)2	18	25	1	1
				60	2	1
				100		
DIMETHYLAMINE		(CH3)2NH	100	25	2	1
				60	3	2
				100		
DIOCTYLPHTHALATE			all	25	3	2
				60	3	2
				100		
DISTILLED WATER			100	25	1	1
				60	1	1
				100		1
DRINKING WATER			100	25	1	1
				60	1	1
				100		1
ETHERS			all	25	3	3
				60	3	3
				100		
ETHYL		CH3CO2C2H5	100	25	3	2
- ACETATE				60	3	3
				100		3
- ALCOHOL		CH3CH2OH	nd	25	1	1
				60	2	1
				100		1
- CHLORIDE		CH3CH2Cl	all	25	3	3
				60	3	3
				100		
- ETHER		CH3CH2OCH2CH3	all	25	3	3
				60	3	3
				100		
ETHYLENE		ClCH2CH2OH	100	25	3	
- CHLOROHYDRIN				60	3	
				100		
- GLYCOL		HOCH2CH2OH	comm	25	1	1
				60	2	1
				100		
FATTY		ACIDS	nd	25	1	
				60	1	
				100		
FERRIC		FeCl3	10	25	1	1
- CHLORIDE				60	2	1
				100		
			sat	25	1	1
				60	1	1
				100		1
- NITRATE		Fe(NO3)3	nd	25	1	
				60	1	
				100		
- SULPHATE		Fe(SO4)3	nd	25	1	1
				60	1	
				100		

Chemical	Formula	Conc.	Temp.	uPVC	PP
		(%)	(°C)		
FERROUS	FeCl2	sat	25	1	1
- CHLORIDE			60	1	
			100		
- SULPHATE	FeSO4	nd	25	1	1
			60	1	
			100		
FERTILIZER		≤10	25	1	1
			60	1	1
			100		
		sat	25	1	1
			60	1	1
			100		
FLUORINE GAS - DRY F2		100	25	2	3
			60	3	3
			100		
FLUOROSILICIC ACID	H2SiF6	32	25	1	1
			60	1	1
			100		
FORMALDEHYDE	HCOH		25	1	1
			60	2	1
			100		
FORMIC ACID	HCOOH	50	25	1	1
			60	2	1
			100		
		100	25	1	1
			60	3	1
			100		
FRUIT PULP AND JUICE		comm	25	1	1
			60	1	1
			100		
FUEL OIL		100	25	1	1
			60	1	2
			100		
		comm	25	1	1
			60	1	2
			100		
FURFUROLE ALCOHOL	C5H3OCH2OH	nd	25	3	2
			60	3	2
			100		
GAS EXHAUST		all	25	1	
- ACID			60	1	
			100		
- WITH NITROUS VAPOURS		traces	25	1	1
			60	1	1
			100		
GAS PHOSGENE	ClCOCl	100	25	1	2
			60	2	2
			100		
GELATINE		100	25	1	1
			60	1	1
			100		
GLUCOSE	C6H12O6	all	25	1	1
			60	2	1
			100		
GLYCERINE	HOCH2CHOHCH2OH	all	25	1	1
AQ.SOL			60	1	1
			100		1
GLYCOGLUE		10	25	1	1
AQUEOUS			60	1	1
			100		1
GLYCOLIC ACID	HOCH2COOH	37	25	1	1
			60	1	
			100		
HEPTANE	C7H16	100	25	1	3
			60	2	3
			100		

Class 1: High Resistance Class 2: Limited Resistance Class 3: No Resistance.

Chemical	Formula	Conc.	Temp.	uPVC	PP
		(%)	(°C)		
TOLUENE	C6H5CH3	100	25	3	2
			60	3	3
			100		3
TRANSFORMER OIL		nd	25	1	1
			60	2	2
			100		
TRICHLOROACETIC	CCl3COOH	≤50	25	1	1
ACID			60	3	1
			100		
TRICHLOROETHYLENE	Cl2CCHCl	100	25	3	3
			60	3	3
			100		
TRIETHANOLAMINE	N(CH2CH2OH)2	100	25	2	1
			60	3	
			100		
TURPENTINE		100	25	2	3
			60	2	3
			100		
UREA	CO(NH2)2	²10	25	1	1
AQUEOUS SOLUTION			60	2	1
			100		
		33	25	1	1
			60	2	1
			100		
URINE		nd	25	1	1
			60	2	1
			100		
URIC ACID	C5H4N4O3	10	25	1	
			60	2	
			100		
VASELINE OIL		100	25	1	1
			60	3	2
			100		
VINYL ACETATE	CH3CO2CHCH2	100	25	3	
			60	3	
			100		
WHISKY		comm	25	1	1
			60	1	
			100		
WINES		comm	25	1	1
			60	1	1
			100	1	
WINE VINEGAR		comm	25	1	1
			60	2	1
			100		
ZINC	ZnCl2	dil	25	1	1
- CHLORIDE			60	1	1
			100		
		sat	25	1	1
			60	1	1
			100		2
- CHROMATE	ZnCrO4	nd	25	1	1
			60	1	1
			100		
- CYANIDE	Zn(CN)2	all	25	1	
			60	1	
			100		
- NITRATE	Zn(NO3)2	nd	25	1	1
			60	1	1
			100		
- SULPHATE	ZnSO4	dil	25	1	1
			60	1	1
			100		
		sat	25	1	1
			60	1	1
			100		

Class 1: High Resistance Class 2: Limited Resistance Class 3: No Resistance.

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