# Sichem®

Biaxially-oriented PTFE sheets







Planichem is an Italian manufacturing company specialised in the processing of PTFE, graphite and all the main asbestos-free materials used for the production of gasketing materials, gaskets and semi finished products of high technical value.

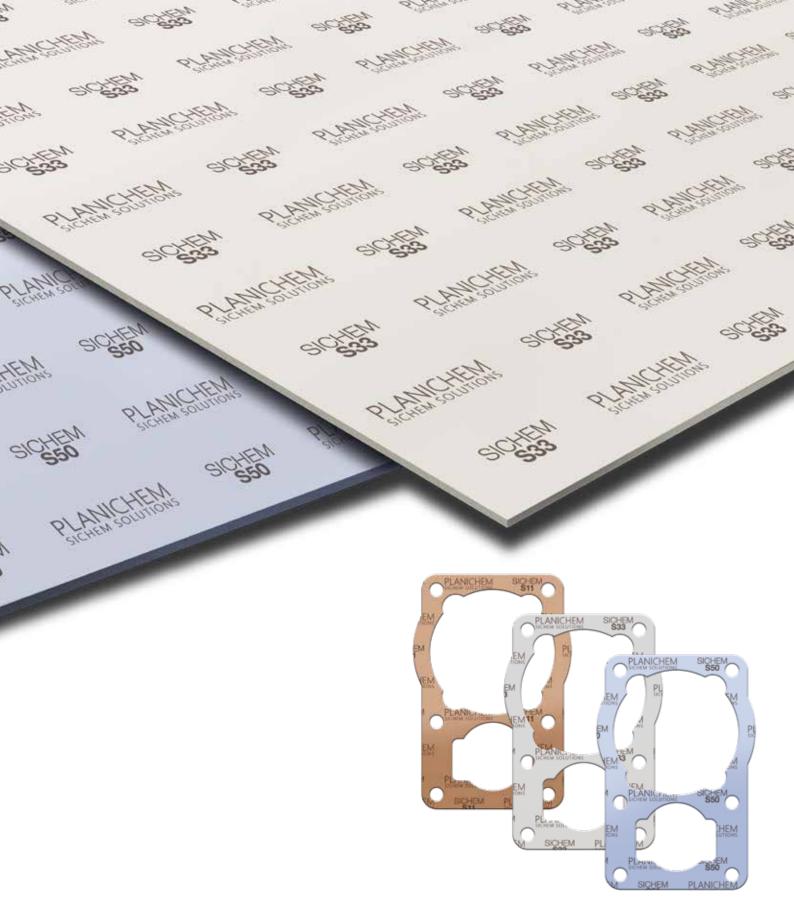
The company's current structure has resulted from progressive developments over the years which have led to the engineering of unique processing and manufacturing methods.

Planichem manufactures leading-edge products and innovative solutions which are protected by international patents.

Planichem's underlying goal is to provide the best quality, as certified by all major independent examination institutes.

Our products are our best guarantee suitable for all types of customers and applications, both standard and critical.

For a detailed list of approvals, please visit the dedicated area on our website www.planichem.com



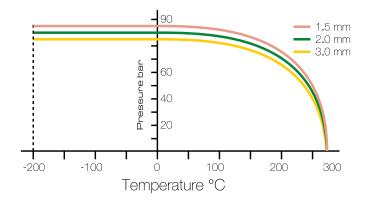
The SICHEM® product range is our biaxially-oriented PTFE sheet solution, combining excellent chemical resistance with optimal sealing performance.

The SICHEM® product range is developed for processes ranging from cryogenic temperatures up to +260° C and is suitable across the entire range of aggressive media (ph O to 14).

SICHEM® is the right solution to achieve the lowest creep value, and seal integrity when it is vital to achieve minimum leakage and conventional PTFE based materials are not suited.

SICHEM®	S11	S33	S50	S59	Diaphragm
Colour				Ø	0
Composition	Modified PTFE with Silica filler	Modified PTFE with Barium sulphate filler	Modified PTFE with Hollow Glass microspheres filler	Modified PTFE with Mica filler	Pure modified PTFE
Density ASTM F 1315 (g/cm3)	2.2	2,8	1.4	2.1	2,18
Temperature operating range (°C)	-260/+260	-260/+260	-260/+260	-260/+260	-260/+260
Max operating pressure (Bbar)	80	80	50	80	Please contact FMI technical service
P x T Max.( Thk 0.8 - 2.0 mm) (Bar x °C)	12000	12000	12000	12000	-
PxTMax. (Thk 3.0 mm) (Barx°C)	8500	8500	8500	8500	-
Leakage DIN 3535-6 (mg*s-1*m-1)	<0.05	<0.005	<0.05	<0.005	<0.005
Creep DIN 3535-6 (%)	<24	<28	<19	<42	<55
Compression DIN 3535-6 (%)	>4	>4.3	>32	>4.8	>11
Recovery DIN 3535-6 (%)	>1.7	>2.1	>7	>3.2	>5
PH range	0-14	0-14	0-14	0-14	0-14
Availability Sheets size (mm) Thickness (mm)	1,500×1,500 1,750×1,750 0,75/1,0/2,0/2,5/3,0/4,0/5,0/6,0	1.500×1.500 1.750×1.750 0.75/1.0/2.0/2.5/3.0/4.0/5,0/6,0	1.500×1.500 1.750×1.750 0.75/1,0/2,0/2,5/3,0/4,0/5,0/6,0	1,500×1,500 1,750×1,750 0,75/1,0/2,0/2,5/3,0/4,0/5,0/6,0	1.000X1.000 1.500x1.500 0,75/1,0/2,0/2,5/3,0/4,0/5,0/
Tolerances Sheets size (mm) Thickness (%)	+/- 50 +/- 10	+/- 50 +/- 10	+/- 50 +/- 10	+/- 50 +/- 10	+/- 50 +/- 10

## Specific features of SICHEM® S11 Pressure Containment and Temperature



S90	S91	S60	S58	S66	S92	S93
					0	
Microcellular Modified PTFE with Silica filler	Microcellular Modified PTFE with Barium sulphate filler	Microcellular Modified PTFE with Inorganic fillers	Microcellular Modified PTFE layers with Pure modified PTFE core	Microcellular Modified PTFE with SS316L tanged core	Microcellular Modified PTFE with graphite	Microcellular Modified PTFE with mica
1,35	2.0	0,85	1.3	1.2	1.45	1.2
-260/+260	-260/+260	-260/+260	-260/+260	-260/+260	-260/+260	-260/+260
70	70	80	80	170	50	50
12000	12000	12000	12000	25000	12000	12000
8500	8500	8500	8500	15000	8500	8500
<0.03	<0.005	<0.002	<0.002	<0.01	<0.005	<0.001
<14	<18	<12	<26	<5	<27	<16
>40	>35	>55	>44	>41	>42	>50
>6	>6	>5	>6.3	>6	>12	>5
0-14	0-14	0-14	0-14	0-14	0-14	0-14
1,500x1,500 1,750x1,750 1,0/1,5/2,0/2,5/3,0/4,0/5,0/6,0	1,500x1,500 1,750x1,750 1,5/2,0/2,5/3,0/4,0/5,0/6,0	1.500x1.500 1.750x1.750 1.0/1.6/2.0/2.5/3.0/4,0/5.0/6,0	1,500x1,500 1,750x1,750 1,5/2,0/2,5/3,0/4,0/5,0/8,0	1.500x1.500 1,0/1.5/2,0/2,5/3,0/4,0/5,0/6,0	1,500x1,500 1,750x1,750 1,5/2,0/2,6/3,0/4,0/5,0/6,0	1,500x1,500 1,750x1,750 1,5/2,0/3,0/4,0/5,0/6,0
+/- 50 +/- 10	+/- 50 +/- 10	+/- 50 +/- 10	+/- 50 +/- 10	+/- 50 +/- 10	+/- 50 +/- 10	+/- 50 +/- 10

Using a patented process, we produce materials that have special controlled microporosity and a close-cell structure. Products from the SICHEM® family achieve high compression and sealability at low bolt torque values. They are optimized for applications with irregular sealing surfaces, compromised load capacity, or replacement of envelope gaskets.







Microcellular structure



Multilayers versions

Other sheet sizes and thicknesses available upon request. Maximum temperature and pressure values cannot be used simultaneously. Typical parameters of 2 mm thickness jointing.

### Chemical compatibility guide for Sichem®

	SICHEM® S33 - S91		SICHEM® S59 - S93	• • • • • • • • • • • • • DIAPHRAGM	SICHEM® S66	Calcium Chloride Calcium Cyanamide Calcium Hydroxide Calcium Hypochlorite Calcium Nitrate Cane Sugar Liquors Caprolactam Captan Carban Carbonlo Acid, Phenol Carbon Dioxide, Dry Carbon Dioxide, Wet Carbon Disulfide	• • • • • • • • SICHEM® S11- S90	• • • • • • SICHEM® S50			• • • • • SICHEM® S59 - S93	• • • • DIAPHRAGM	SICHEM® S66	E85 (85% Ethanol, 15% Gas) Epoxybutane Ethane Ethers Ethyl Acetate		• • • • SICHEM® S50	• • • • • • SICHEM® S33 - S91	• • • • • SICHEM® S58 - S60	• • • • • SICHEM® S59 - S93	• • • • • • DIAPHRAGM	SICHEM® S66
Acetaldehyde Acetamide Acetic Acid Acetic Anhydride Acetone Acetonitrile Acetophenone Acetylaminofluorene Acetylaminofluorene Acrolein Acylamide Acylic Acid Acylic Anhydride Acylic Anhydride Acylic Acid Acylic Anhydride Acylic Anhydride Acylic Acid Acylic Anhydride Acylic Acid Acylic Anhydride Alji Acetate Allyl Acetate Allyl Methacrylate Alluminum Chloride Aluminum Hydroxide (Solid) Aluminum Hydroxide (Solid) Aluminum Nitrate Aluminum Sulfate Alums Aminodiphenyl Ammonia, Gas, 70°C and below Ammonia, Gas, 70°C and below Ammonia, Gas, Above 70°C Ammonia, Uquid, Anhydrous Ammonium Phosphate, Monobasic Ammonium Phosphate, Monobasic Ammonium Phosphate, Monobasic Ammonium Phosphate, Monobasic Ammonium Phosphate, Tribasic Ammonium Sulfate Amyl Acetate Amyl Acothol Aniline Aniline Oil Aniline, Aniline Oil Aniline, Aniline Oil Aniline Hydrochloride Antinomy trichloride Aqua Regia	SICHEM®	SICHEM® S58	• • • • • • • • • • • • • • • • • • •		• • • • • • • SICHEM®	Calcium Oyanamide Calcium Hydroxide Calcium Hydroxide Calcium Hytroxide Calcium Hytrate Cane Sugar Liquors Caprolactam Captan Carbaryl Carboolic Acid, Phenol Carbon Dioxide, Dry Carbon Dioxide, Wet	• • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • •	• • • • SICHEM®	• • • • SICHEM®	• • • • SICHEM®	• • • DIAPHRAG	• • SICHEM®	Epoxybutane Ethane Ethers	• • • • SICHEM®	• • • • SICHEM®	• • • • SICHEM®	• • • • • SICHEM®	• • • • SICHEM®	• • • • • DIAPHRAG	• • • • • SICHEM®
Acetaldehyde Acetamide Acetic Acid Acetic Anid Acetic Anhydride Acetone Acetonitrile Acetophenone Acetylaminofluorene Allyl Acetate Allyl Acetate Aluminum Fluoride Aluminum Hydroxide (Solid) Aluminium, Moltren Aluminum Sulfate Aluminum Sulfate Aluminum Sulfate Arminonium Chloride Armonium Phosphate, Monobasic Armmonium Phosphate, Monobasic Armmonium Phosphate, Tribasic Armmonium Sulfate Armyl Acetate Arnyl Acetate Arnyl Acetate Arnyl Acohol Aniline Hydroxohoride Arniline Dyes Anisidine Antiline Dyes Anisidine Antiline Dyes Anisidine Antiline Dyes Anisidine Antiline Agua Regia	SICHEM®	SICHEM®	• • • • • • • • • • • • • • • • • • •		• • • • • • • SICHEM®	Calcium Oyanamide Calcium Hydroxide Calcium Hydroxide Calcium Hytroxide Calcium Hytrate Cane Sugar Liquors Caprolactam Captan Carbaryl Carboolic Acid, Phenol Carbon Dioxide, Dry Carbon Dioxide, Wet	• • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • •	• • • • SICHEM®	• • • • SICHEM®	• • • • SICHEM®	• • • DIAPHRAG	• • SICHEM®	Epoxybutane Ethane Ethers	• • • • SICHEM®	• • • • SICHEM®	• • • • SICHEM®	• • • • • SICHEM®	• • • • SICHEM®	• • • • • DIAPHRAG	• • • • • SICHEM®
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Aluminum Hydroxide (Solid) Aluminium, Molten Aluminium, Molten Aluminum Nitrate Aluminum Sulfate Alums Aminodiphenyl Ammonia, Gas, 70°C and below Ammonia, Gas, Above 70°C Ammonia, Liquid, Anhydrous Ammonium Chloride Ammonium Phosphate, Monobasic Ammonium Phosphate, Monobasic Ammonium Phosphate, Tribasic	•		•	:		Cetane (Hexadecane)	•	•	•	•	•	•	•	Ethylene Thiourea	•	•	•	•	•	•	•
Aluminium, Molten Aluminium Nitrate Aluminum Sulfate Alums Aminodiphenyl Ammonia, Gas, 70°C and below Ammonia, Gas, Above 70°C Ammonia, Liquid, Anhydrous Ammonium Chloride Ammonium Nitrate Ammonium Phosphate, Monobasic Ammonium Phosphate, Tribasic	•	1 *		•		China Wood Oil Chloramben		•					•	Ethylidine Chloride Ferric Chloride	•	•	:				•
Aluminum Sulfate Alums Aluminum Sulfate Alums Aminodiphenyl Ammonia, Gas, 70°C and below Ammonia, Gas, Above 70°C Ammonia, Liquid, Anhydrous Ammonium Chloride Ammonium Hydroxide Ammonium Phosphate, Monobasic Ammonium Phosphate, Dibasic Ammonium Phosphate, Tribasic	•	•	•	•	•	Chlorazotic Acid (Aqua Regia)	•	•	•	•	•	•	•	Ferric Phosphate	•	•	•	•	•	•	•
Aminodiphenyl Ammonia, Gas, 70°C and below Ammonia, Gas, Above 70°C Ammonia, Liquid, Anhydrous Ammonium Chloride Ammonium Hydroxide Ammonium Phosphate, Monobasic Ammonium Phosphate, Dibasic Ammonium Phosphate, Tribasic Ammonium Phosphate, Tribasic Ammonium Sulfate Amyl Alcohol Aniline, Aniline Oil Aniline, Aniline Oil Aniline Hydrochloride Aniline Dyes Anisidine Anthomy trichloride Aqua Regia	:	•	•	•	•	Chlordane Chlorinated Solvents, Dry	•	•	•				•	Ferric Sulfate Fluorine, Gas	•	•	•	•	•	•	•
Ammonia, Gas, 70°C and below Ammonia, Gas, Above 70°C Ammonia, Liquid, Anhydrous Ammonium Chloride Ammonium Hydroxide Ammonium Phosphate, Monobasic Ammonium Phosphate, Dibasic Ammonium Phosphate, Tribasic Ammonium Phosphate, Monobasic Ammonium Phosphate, Monobasic Ammonium Phosphate, Tribasic Ammonium Pho	:	:	•	:		Chlorinated Solvents, Wet	•	•	•	•	•	•	•	Fluorine, Liquid	•	•	•	•	•	•	•
Ammonia, Liquid, Anhydrous Ammonium Chloride Ammonium Hydroxide Ammonium Phosphate, Monobasic Ammonium Phosphate, Dibasic Ammonium Phosphate, Tribasic Ammonium Phosphate, Tribasic Ammonium Sulfate Amyl Acetate Amyl Acothol Aniline, Aniline Oil Aniline, Aniline Oil Aniline Hydrochloride Aniline Dyes Anisidine Anthomy trichloride Aqua Regia		•	•	•	•	Chlorine, Dry Chlorine, Wet	•	•	•					Fluorine Dioxide Formaldehyde	•	•	•	•	•	•	•
Ammonium Chloride Ammonium Hydroxide Ammonium Hydroxide Ammonium Phosphate, Monobasic Ammonium Phosphate, Dibasic Ammonium Phosphate, Tribasic Ammonium Sulfate Amyl Acetate Amyl Acetate Amyl Alcohol Aniline, Aniline Oil Aniline Hydrochloride Aniline Dyes Anisidine Antinomy trichloride Aqua Regia						Chlorine Dioxide	•	•	•	•	•	•	•	Formic Acid	•	•	•	•	•	•	•
Ammonium Nitrate Ammonium Phosphate, Monobasic Ammonium Phosphate, Dibasic Ammonium Phosphate, Tribasic Ammonium Sulfate Amyl Acetate Amyl Acothol Aniline, Aniline Oil Aniline Hydrochloride Aniline Dyes Anisidine Anthomy trichloride Aqua Regia				•		Chlorine Trifluoride Chloroacetic Acid		•	•					Fuel Oil Fuel Oil, Acid	•	•	•				•
Ammonium Phosphate, Monobasic Ammonium Phosphate, Dibasic Ammonium Phosphate, Tribasic Ammonium Sulfate Amyl Acetate Amyl Acetate Amyl Alcohol Aniline, Aniline Oil Aniline Dyes Anisidine Anitine Dyes Anisidine Antinomy trichloride Aqua Regia						Chloroacetophenone	:	•	•					Gasoline, Refined	•	•		•	•		•
Ammonium Phosphate, Tribasic Ammonium Sulfate Amyl Acetate Amyl Alcohol Aniline, Aniline Oil Aniline Dyes Anisidine Aniline Dyes Anisidine Antinomy trichloride Aqua Regia	•	•	•	•	•	Chlorobenzene Chlorobenzilate	:	•				•		Gelatin Glucose		•		•			•
Ammonium Sulfate Amyl Acetate Amyl Alcohol Aniline, Aniline Oil Aniline Hydrochloride Aniline Dyes Anisidine Antinomy trichloride Aqua Regia			•			Chloroethane Chloroethylene	:	:						Glycerine, Glycerol Glycol	:	•					:
Amyl Alcohol Aniline, Aniline Oil Aniline Hydrochloride Aniline Dyes Anisidine Anthomy trichloride Aqua Regia	•	•	•	•	•	Chloroform		•	•	•		•	•	Grain Alcohol	•	•		•	•	•	•
Aniline, Aniline Oil Aniline Hydrochloride Aniline Dyes Anisidine Antinomy trichloride Aqua Regia						Chloromethyl Methyl Ether (CMME) Chloronitrous Acid (Aqua Regia)			:				•	Grease, Petroleum Base Green Sulfate Liquor	•	•					•
Aniline Dyes Anisidine Antinomy trichloride Aqua Regia	•	•	•	•	•	Chloroprene	•	•	•	•	•	•	•	Heptachlor	•	•	•	•	•	•	
Anisidine Antinomy trichloride Aqua Regia	•	•	•	•		Chlorosulfonic Acid Chromic Acid								Heptane Hexachlorobenzene	•	:					:
Aqua Régia • •	•	•	•	•	•	Chromic Anhydride	•	•	•	•	•	•	•	Hexachlorobutadiene	•	•	•	•	•	•	•
						Chromium Trioxide Citric Acid								Hexachlorocyclopentadiene Hexachloroethane	•	•					•
	:	•	•	•	•	Coke Oven Gas	•	•	•	•	•	•	•	Hexadecane	•	•	•	•	•	•	•
Aromatic Hydrocarbons  Arsenic Acid	•		•	•		Copper Chloride Copper Sulfate		•						Hexamethylene Diisocyanate Hexamethylphosphoramide	:	•					•
Arseneous Acid Asphalt  • •	:	:	•			Com Oil	•	•	•	•	•	•	•	Hexane	•	•	•	•	•	•	•
Aviation Gasoline • •	•		•	•		Cotton Seed Oil 10 Creosote		•	•					Hexone Hydraulic Oil, Mineral	•	•	•	•			•
Barium Chloride  Barium Hydroxide  • •				:		Cresols, Cresylic Acid	•	•	•			•	•	Phosphate Esters	•	•	•				•
Barium Sulfide • •	•	•	•	•	•	Crotonic Acid Crude Oil		•					•	Hydrazine Hydrobromic Acid		•	•				•
Baygon • • • Beer			:			Cumene Cyclohexane	•	•						Hydrochloric Acid Hydrochloric Acid, dry	•	•	•	•	•	•	•
Benzaldehyde • •	•	•	•	•	•	Cyclohexanol				•			•	Hydrochloric Acid, ary Hydrochloric Acid 20%	•	•	•	•	•	•	•
Benzene, Benzol  Benezene Sulphonic Acid  • •			:			Cyclohexanone Diazomethane		•						Hydrocyanic Acid Hydrofluoric Acid, Anhydrous	•	•					•
Benzidine • •	•	•	•	•	•	Dibenzofuran	•	•	•	•	•	•	•	Hydroffuoric Acid, Less than 65% Above 70°C	•	•	•	•	•	•	•
Benzoic Acid  Benzonitrile  • •	:	•	•	•	•	Dibenzylether Dibromo chloropropane		•						Hydrofluoric Acid, 65% to Anhydrous,Above 70°C Hydrofluoric Acid, Up to Anhydrous,70°C & below	•	•	•				•
Benzoquinones • •	:	:	•	:		Dibromoethane	•	•	•	•	•	•	•	Hydrofluorosilicic Acid	•	•	•	•	•	•	•
Benzoyl Chloride • •	•	•	•	•	•	Dibutyl Phthalate Dibutyl Sebacate		•	•					Hydrofluosilicic Acid Hydrogen	•	•	•	•	•		•
Benzyl Alcohol  Benzyl Chloride		:	•	:	•	Dichlorobenzene	•	•	•	•	•	•	•	Hydrogen Bromide	•	•	•	•	•	•	•
Bio-diesel (B100)	•	•	•	•	•	Dichlorobenzidene Dichloroethane	•	•	•				•	Hydrogen Fluoride Hydrogen Peroxide, 10%	•	•	•	•	•	•	•
Biphenyl Bis(2-chloroethyl)ether  • •					•	Dichloroethylene	•	•	۰	•	•	•	•	Hydrogen Peroxide, 10-90%	•	•					•
Bis(chloromethyl)ether • •	•	•	•	•	•	Dichloroethyl Ether Dichloromethane							•	Hydrogen Sulfide, Dry or Wet Hydroquinone		•					•
Bis(2-ethylhexyl)phthalate  Black Sulfate Liquor  • •			•	•		Dichloropropane Dichloropropene	:	:						lodine Pentafluoride lodomethane	•	•	•	•	•	•	•
Blast Furnace Gas • •	•	•	•	•	•	Dichlorvos		•	•	•		•	•	Isobutane	•	•		•	•	•	•
Bleach (Sodium Hyprochlorite)  Boiler Feed Water  • •			•			Diesel Oil Diethanolamine								Isooctane Isophorone	•	•					•
Borax • •	•	•	•	•	•	Diethylaniline	•	•	•	•	•	•	•	Isopropyl Alcohol	•	•	•	•	•	•	•
Boric Acid Brine (Sodium Chloride)  • •	:		•	•	•	Diethyl Carbonate Diethyl Sulfate	:	•					•	Jet Fuels Kerosene	•	•	•				•
Bromine • •	:	:	•	•		Dimethoxybenzidene	•	•	•	•	•	•	•	Lacquer Solvents	•	•	•	•	•	•	•
Bromine Trifluoride • • • Bromoform • • •		•	•	•		Dimethylaminoazobenzene Dimethyl Aniline	•	•	•				•	Lacquers Lactic Acid, 70°C and below	•	•	•	•	•		•
Bromomethane • •	:	•	•	•	•	Dimethylbenzidine	•	•	•	•	•	•	•	Lactic Acid, Above 70°C	•	•	•	•	•	•	•
Butadiene • • • Butane		•	•	•	•	Dimethyl Carbamoyl Chloride Dimethyl Ether	•	•	•					Lime Saltpeter (Calcium Nitrates)Lindane	•	•	•	•	•	•	•
Butanone • • • Butyl Acetate • •	:	•	•	:		Dimethylformamide		•					•	Linseed Oil	:	•	:		:		:
Butyl Alcohol, Butanol • •	•	•	•	•	•	Dimethyl Phthalate Dimethyl Sulfate	:	•						Liquified Petroleum Gas Lithium Bromide	•	•	•				•
Butyl Amine • • tert-Butyl Amine	•		:	:		Dinitrophenol Dinitrotoluene	•	•	•				•	Lithium, Elemental Lubricating Oils, Refined	•	•	•		•		•
Butyl Methacrylate • •	•	•	•	•	•	Dioxane	•	•	•	•	•	•	•	Lubricating Oils, Refined  Lubricating Mineral or Petroleum Types	•	•	•	•	•	•	•
Butyric Acid Calcium Bisulfite	•		•	•		Diphenylhydrazine	•	•	•	•	•	•	•	Sour	•	•	•		•	•	•

	SICHEM® S11- S90	SICHEM® S50	SICHEM® S33 - S91	SICHEM® S58 - S60	SICHEM® S59 - S93	DIAPHRAGM	SICHEM® S66		SICHEM® S11- S90	SICHEM® S50	SICHEM® S33 - S91		SICHEM® S59 - S93	DIAPHRAGM	SICHEM® S66		SICHEM® S11-S90	SICHEM® S50	SICHEM® S33 - S91		SICHEM® S59 - S93	DIAPHRAGM	SICHEM® S66
Magnesium Chloride Magnesium Hydroxide	•	:	•	•	•	•	•	Phosphine Phosphoric Acid, Crude	•	•	•	•	•	•		Sodium Hypochlorite Sodium Metaborate Peroxyhydrate	•	•	•	•	•	•	•
Magnesium Sulfate	•	•	•	•	•	•	•	Phosphoric Acid, Pure, Less than 45%	•	•	•	•	•	•	•	Sodium Metaphosphate	•	•	•	•	•	:	•
Maleic Acid Maleic Anhydride	•	:	•	•	•			Phosphoric Acid, Pure, Above 45%, Phosphoric Acid, Pure, Above 45%, Above 70°C	•		•	•	•			Sodium Nitrate Sodium Perborate	•			•			•
Mercuric Chloride	•	•	•	•	•	•	•	Phosphorus, Elemental	•	•	•	•	•	•	•	Sodium Peroxide	•	•	•	•	•	•	•
Mercury Methane	:			•	•			Phosphorus Pentachloride Phthalic Acid	:		•	•		•		Sodium Phosphate, Monobasic Sodium Phosphate, Dibasic	•	•		•	•		:
Methanol, Methyl Alcohol	•	•	•	•	•	•	•	Phthalic Anhydride	•	•	•	•	•	•	•	Sodium Phosphate, Tribasic	•	•	•	•	•	•	•
Methoxychlor	•	•	•	•	•	•	•	Picric Acid, Molten	•	•	•		•	•	•	Sodium Silicate	•	•	•	•	•	•	•
Methylacrylic Acid Methyl Alcohol	•	:	•	•	•	•	•	Picric Acid, Water Solution Pinene			•	•	•	•		Sodium Sulfate Sodium Sulfide	•	:	•	•	•		:
Methylaziridine	•		•	•	•	•	•	Piperidine	•	•	•	•	•	•	•	Sodium Superoxide	•	•	•	•	•	•	•
Methyl Bromide Methyl Chloride	:		•	•	•	•	•	Polyacrylonitrile Polychlorinated Biphenyls	:		•	•		•		Sodium Thiosulfate Soybean Oil	•		•	•	•		
Methyl Chloroform	•			•				Potash, Potassium Carbonate			•	•				Stannic Chloride							
4,4-Methylene-Bis(2-chloroaniline)	•	•	•	•	•	•	•	Potassium Acetate	•	•	•	•	•	•	•	Steam, Saturated	•	•	•	•	•	•	•
Methylene Chloride Methylene Dianiline	•	:		•	•	•		Potassium Bichromate Potassium Chromate, Red			•	•	•	•		Superheated Stearic Acid	•	•	•	•	•	•	•
Methylene Diphenyldiisocyanate	•	•	•	•	•	•	•	Potassium Cyanide	•	•	•	•	•	•	•	Stoddard Solvent	•	•	•	•	•	•	•
Methyl Ethyl Ketone (MEK)	:	:		•	•	:		Potassium Dichromate Potassium, Elemental	•		•	•	•	•		Styrene Styrene Ovide	•	•	•	•	•		•
Methyl Hydrazine Methyl lodide	•			•				Potassium, Elemental Potassium Hydroxide		•	•	•				Styrene Oxide Sugar	•	•	•	•	•	•	
Methyl Isobutyl Ketone (MIBK)	•	•	•	•	•	•	•	Potassium lodide	•	•	•		•	•	•	Sulfur Chloride	•	•	•	•	•	•	•
Methyl Isocyanate Methyl Methacrylate	•	•	•	•	•	•	•	Potassium Nitrate Potassium Permanganate	:		•	•				Sulfur Dioxide Sulfur, Molten	•		•	•	•		
Methyl Pyrrolidone	•	•	•	•	•	•	•	Potassium Sulfate	•	•	•	•	•	•	•	Sulfur Trioxide, Dry	•	•	•	•	•	•	•
Methyl Tert, Butyl Ether (MTBE)	•	•	•	•	•	•	•	Producer Gas	:	•	•	•	•	•	•	Sulfur Trioxide, Wet	•	•	•	•	•	•	•
Milk Mineral Oils	•			•	•	•		Propane Propane Sultone		:	•	•		•	•	Sulfuric Acid, 10%, 70°C and below Sulfuric Acid, 10%, Above 70°C			•	•	•	:	•
Molten Alkali Metals	•	•	•	•	•	•	•	Beta-Propiolactone	•	•	•	•	•	•	•	Sulfuric Acid, 10-75%, 260°C and below	•	•	•	•	•	•	•
Monomethylamine	•	:		•	•	:		Propionaldehyde Propyl Alcohol	:		•	•	•	•		Sulfuric Acid, 75-98%, 70°C and below	:	•	•	•	•		:
Muriatic Acid Naphtha								Propyl Nitrate				•	•			Sulfuric Acid, 75-98%, 70°C to 260°C Sulfuric Acid, Sulfuric Acid, Furning							
Naphthalene	•	•	•	•	•	•	•	Propylene	•	•	•	•	•	•	•	Sulfurous Acid	•	•	•	•	•	•	•
Naphthols Natural Gas	•			•	•	•	•	Propylene Dichloride Propylene Glycol		:	•	•		•		Tannic Acid Tartaric Acid	:	•	•	•	•		•
Nickel Chloride	•	•	•	•	•	•		Propylene Oxide	•	•	•	•	•	•	•	TCDB-p-Dioxin	•	•	•	•	•	•	
Nickel Sulfate	•	•	•	•	•	:	•	Propylenimine	•	•	•	•	•	•	•	Tertiary Butyl Amine	•	•	•	•	•		•
Nitric Acid, Less than 30% Nitric Acid, Above 30%	•	:		•	•			Prussic Acid, Hydrocyanic Acid Pyridine	:		•	•	•	•		Tetrabromoethane Tetrachlorethane	:	•	•	•	•		•
Nitric Acid, Crude	•	•	•	•	•	•	•	Quinoline	•	•	•	•	•	•	•	Tetrachloroethylene	•	•	•	•	•	•	•
Nitric Acid, Red Fuming Nitrobenzene	:		•	•	•	•		Quinone Refrigerant type 10	:	:	•	•	•	•		Tetrahydrofuran, THF Thionyl Chloride	•	:	•	•	•		
Nitroberizerie Nitrobiphenyl				•				Refrigerant type 11			•	•				Titanium Sulfate				•			•
Nitro-Butanol	•	•	•	•	•	•	•	Refrigerant type 12	•	•	•	•	•	•	•	Titanium Tetrachloride	•	•	•	•	•	•	•
Nitrocalcite (Calcium Nitrate) Nitrogen	:	:		•	•	•	•	Refrigerant type 13 Refrigerant type 13B1			•	•	•	•		Toluene Toluenediamine			•	•	•		
Nitrogen Tetroxide	•	•	•	•	•	•	•	Refrigerant type 21	•	•	•	•	•	•	•	Toluenediisocyanate	•	•	•	•	•	•	
Nitrohydrochloric Acid (Aqua Regia)	:	:	•	•	•	•	•	Refrigerant type 22	:	•	•	•	:	•	•	Toluene Sulfonic Acid	•	•	:	•	•	•	
Nitromethane 2-Nitro-2-Methyl Propanol	:			•	•	:	•	Refrigerant type 23 Refrigerant type 31				•				Toluidine Toxaphine	•	•				:	•
Nitromuriatic Acid (Aqua Regia)	•	•	•	•	•	•	•	Refrigerant type 32	•	•	•	•	•	•	•	Transformer Mineral Oil	•	•	•	•	•	•	•
Nitrophenol Nitropropane	•			•	•	:	•	Refrigerant type 112 Refrigerant type 113	•		•	•		•		Transmission Fluid A Trichloroacetic Acid	:		•	•	•		•
Nitrosodimethylamine	•	•	•	•	•	•	•	Refrigerant type 114	•	•	•	•	•	•	•	Trichlorobenzene	•	•	•	•	•	•	•
Nitroso Methylurea	•			•	•	•	•	Refrigerant type 114B2	:		:	•		•		Trichloroethane	•		•	•			
Nitrosomorpholine Norge Niter (Calcium Nitrate)	:							Refrigerant type 115 Refrigerant type 123				•				Trichloroethylene Trichlorophenol	:						
Norwegian Saltpeter (Calcium	•	•	•	•	•	•	•	Refrigerant type124	•	•	•	•	•	•	•	Tricresylphosphate	•	•	•	•	•	•	•
Nitrate) Octadecyl Alcohol	•			•	•	:		Refrigerant type 125 Refrigerant type 134a	:		•	•		•		Triethanolamine Triethyl Aluminum	•		•	•	•		•
Octane	•	•	•	•	•	•	•	Refrigerant type 141b	•	•	•	•	•	•	•	Triethylamine	•	•	•	•	•	•	•
Oil, Petroleum Oils, Animal and Vegetable	•	:		•	•	•		Refrigerant type 142b	•	:	•	•	•	•		Trifluralin	:		•	•	•		
Oleic Acid								Refrigerant type 143a Refrigerant type 152a			•	•				Trimethylpentane Turpentine							
Oleum	•	•	•	•	•	•	•	Refrigerant type 218	•	•	•	•	•	•	•	Urea, 70°C and below	•	•	•	•	•	•	•
Orthodichlorobenzene Oxalic Acid	:			•	•			Refrigerant type 290 (Propane) Refrigerant type 500			•	•				Urea, above 70°F Varnish			:	•			
Oxygen, Gas (BAM Approval)	•	•						Refrigerant type 502	•	•	•	•	•	•	•	Vegetable Oil	•	•	•	•	•	•	•
Ozone	•		•	•	•	•	•	Refrigerant type 503	•	•	•	•	:	•	•	Vinegar	•	•	•	•	•	•	•
Oil, Petroleum Oils, Animal and Vegetable	•			•	•			Refrigerant type 507 Refrigerant type 717 (Ammonia)			•	•		•		Vinyl Acetate Vinyl Bromide	•	•	•	•	•		
Oleic Acid	•	•	•	•	•	•	•	Refrigerant type 744 (Carbon Dioxide)	•	•	•	•	•	•	•	Vinyl Chloride	•	•	•	•	•	•	•
Oleum	•				•	•		Refrigerant type C316	:		•			•		Vinylidene Chloride	:			•	•		•
Orthodichlorobenzene Oxalic Acid	•							Refrigerant type C318 Refrigerant type HP62			•	•				Vinyl Methacrylate Water, Acid Mine, with Oxidizing Salt				•			
Oxygen, Gas (BAM Approval)	•	•	•	•	•	•	•	Refrigerant type HP80	•	•	•	•	•	•	•	Water, Acid Mine, No Oxidizing Salts	•	•	•	•	•	•	•
Ozone Palmitic Acid	•	:		•	•	•		Refrigerant type HP81 Salt Water	•		•	•		•		Water, Distilled Return Condensate	:	•	•	•	•		•
Paraffin	•	•	•	•	•	•	•	Saltpeter, Potassium Nitrate	•	•	•	•	•	•	•	Seawater	•	•	•	•	•	•	•
Parathion	•	•	•	•	•	•	•	Sewage	•	•	•	•	•	•	•	Tap Water	•	•	•	•	•	•	•
Paraxylene Pentachloronitrobenzene	•	:	•	•	•	•	•	Silicon Oil Silver Nitrate	•	•	•	•	•	•	•	Whiskey and Wines Wood Alcohol	•		•	•	•		•
Pentachlorophenol	•	•	•	•	•	•	•	Soda Ash, Sodium Carbonate	•	•	•	•	•	•	•	Xylene	•	•	•	•	•	•	•
Pentane Porchloric Acid	:	:		•	•	:		Sodium Bicarbonate, Baking Soda	:	:	•	•	:	•		Zinc Chloride Zinc Sulfate	:		•	•	•	:	
Perchloric Acid Perchloroethylene	•							Sodium Bisulfate (Dry) Sodium Bisulfite			•	•				Zii lo Ouliald			<u> </u>				
Petroleum Oils, Crude	•	•	•	•	•	•	•	Sodium Chlorate	•	•	•	•	•	•	•	<ul> <li>SUITABLE</li> </ul>							
Petroleum Oils, Refined Phenol	:	:		•	•	•		Sodium Chloride Sodium Cyanide	•	•	•	•		•		DEPENDS ON OPERATING CONDITION	TION	S					
1 10101											•					<ul> <li>UNSUITABLE</li> </ul>							
Phenylenediamine Phosgene	:							Sodium, Elemental Sodium Hydrogen Sulphite	•	•	•					UNSUITABLE							



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