







PLANICHEM SICHEM SOLUTIONS

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.

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.

Sichem EL60 Multidirectional ePTFE Gasketing Sheet

Sizes

Thichness [mm]	Standard Widths [mm]	Standard Lengths [m]
0.50	1500	1500
1.00	1500	1500
1.50	1500	1500
3.00	1500	1500

Other sizes and thicknesses are available on demand.



Sichem EL60 is a multidirectional ePTFE gasketing sheets made from 100% pure multidirectional ePTFE. The versatility of Sichem E enables them to cover a wide range of flange shapes making them ideal for various industrial applications. With their excellent chemical resistance and high blow-out safety Sichem EL60 gasketing sheets can be used in aggressive applications where other gaskets may fail. Sichem EL60 sheets are available in various thicknesses and can be customized to fit specific flange dimensions. Additionally Sichem E shows extreme adaptability to flange roughness and irregularities and high gasket stress retention.

Properties Sichem EL60 - 3 mm thickness

EN13555

- Qmin (40 bar He; 0,01 mg/(s*m)):	37 MPa
- QSmin	
(QA=30 MPa; 40 bar He; L=0,01):	< 10 Mpa
- QSmax (23°C):	160 Mpa
- Leakage Rate	
(Q =40 MPa; 40 bar He):	<10-4 mg/(s*m)
- PQR @ 20 °C (QA=30 MPa):	0,94

ASTM F36

- Compressibility:	50 - 55 %
- Compressed Thickness:	1,40 mm
- Recovery:	> 10
- Recovered Thickness:	1,60 mm

Technical Data

Material

100 % pure multidirectionally expanded PTFE Temperature Range of the material -268°C up to +260°C.

Chemical Resistance

Resistant to all media in the range of pH 0 to 14, except for molten and dissolved alkali metals and elemental fluorine gas at high temperatures and pressures.

Recommended Operating Range

Vacuum to 40 bar at -200°C to +230°C, depending on the individual application up to 200 bar.

Certificates

FDA CFR 177.1550 (PTFE)

Sichem ET60 Multidirectional ePTFE tape



Sichem ET60 tape is the high grade alternative to reduce maintenance, loss production, material costs and scrap with large diameter piping and metal or glass lined apparatus flanges. Sichem ST60 is made from 100% pure multidirectionally ePTFE. Its characteristics are directly comparable to gaskets made out of Sichem ET60 gasketing sheets material. This multidirectional ePTFE gives excellent creep resistance for a longlasting seal, that is reliably tight and blow-out safe. Sichem ET60 has an adhesive backing and can easily be formed in place. It is highly conformable and the ideal choice for sealing large flanges and complex steel equipment in demanding applications. For the use in high purity applications Sichem ST60 is available in a GMP conforming style.

Sizes and Spool Lenghts

Thichness [mm]	Standard Widths [mm]	Standard Lengths [m]
2	10 to 35 mm in 5 mm steps	10 / 15 / 25
3	10 to 65 mm in 5 mm steps	10 / 15 / 20
6	10 to 65 mm in 5 mm steps	10 / 15 / 20
9	10 to 65 mm in 5 mm steps	10 / 15 / 20

Properties Sichem ET60 - 3 mm thickness

EN13555

- Qmin (40 bar He; 0,01 mg/(s*m)): 29 MPa
- QSmin (QA=30 MPa; 40 bar He; L=0,01): < 10 Mpa
- QSmax (23°C): 130 Mpa 0,91
- PQR @ 20 °C (QA=30 MPa):

ASTM F36

- Compressibility:	50 - 55 %
- Compressed Thickness:	1,42 mm
- Recovery:	13 %
- Recovered Thickness:	1,63 mm

Technical Data

Material

100 % pure multidirectionally expanded PTFE Temperature Range of the material -200°C up to +260°C.

Chemical Resistance

Resistant to all media in the range of pH 0 to 14, except for molten and dissolved alkali metals and elemental fluorine gas at high temperatures and pressures.

Recommended Operating Range

Vacuum to 40 bar at -200°C to +230°C, depending on the individual application up to 200 bar.

Certificates

FDA 21 CFR 177.1550 (PTFE) for Style GMP



Chemical compatibility guide for Sichem®

	SICHEM ET60	SICHEM® S11- S90	SICHEM® S50		058 	- 622 S59 -	N			SICHEM ET60	SICHEM® S11- S90	SICHEM® S50	SICHEM® S33 - S91	SICHEM® S58 - S60	SICHEM® S59 - S93	DIAPHRAGM		SICHEM ET60	SICHEM® S11- S90	SICHEM® S50	SICHEM® S33 - S91	SICHEM® S58 - S60	SICHEM® S59 - S93	3
cetaldehyde cetamide	:	:	:	:				_	Calcium Chloride	:	•	•	:	:	•	:	E85 (85% Ethanol, 15% Gas)	:	•	:	•	:	•	
cetic Acid	•	•	•	•	•	•	•		Calcium Cyanamide Calcium Hydroxide		•			•			Epoxybutane Ethane		•	-				_
cetic Anhydride								_	Calcium Hypochlorite	•	•	٠	٠	•	•	•	Ethers	•	٠	•	٠	•	•	_
etone etonitrile									Calcium Nitrate Cane Sugar Liquors	:	:	:	:	:	:	:	Ethyl Acetate Ethyl Acrylate		•	•	•			_
etophenone	•	•	•	•	•	•	•		Caprolactam		•	•	•	•	•	•	Ethyl Alcohol	•	•	•	•	•		
etylaminofluorene	•	•	•	•	•			_	Captan	•	•	٠	•	٠	•	•	Ethylbenzene	•	٠	•	٠	•	•	
etylene rolein									Carbaryl Carbolic Acid, Phenol	:	:	:	:	:	:	:	Ethyl Carbamate Ethyl Cellulose		:	:	•			- 1
ylamide	•	•	•						Carbon Dioxide, Dry					•			Ethyl Chloride		•		•			- 1
ylic Acid	•	•	•	•	•		•	_	Carbon Dioxide, Wet	•	•	٠	٠	٠	•	•	Ethyl Ether	•	•	•	٠	•	•	e.
rylic Anhydride rylonitrile			1:						Carbon Disulfide	:	:	:	:	:	:	:	Ethyl Hexoate	:	:	:	•			
pic Acid		•						_	Carbon Monoxide Carbon Tetrachloride								Ethylene Ethylene Bromide							
ponitrile	•	•	•	•	•				Carbonic Acid	•	•	•	٠	٠	•	•	Ethylene Dibromide	•	•	•	•	•	•	_ 1
Acetate		:	:	:				_	Carbonyl Sulfide Castor Oil		•	•	:	:	:	:	Ethylene Dichloride Ethylene Glycol	:	:	:	•	:	:	_ 1
1 Chloride	•	•	•					_	Castor Oli								Ethyleneimine							
Methacrylate	•	•	•	•	•		•		Caustic Soda	•	•	•	•	•	•	•	Ethylene Oxide	•	•	•	•	•	•	
minum Chloride minum Fluoride								_	Cetane (Hexadecane) China Wood Oil		:	•	:	:	:	:	Ethylene Thiourea	:	:	:	•	:	:	
minum Hydroxide (Solid)						•	•		China Wood Oil Chloramben			:		•			Ethylidine Chloride Ferric Chloride		:		:			
minium, Molten	•	•	•	•				_	Chlorazotic Acid (Aqua Regia)	•	•	•	٠	٠	•	•	Ferric Phosphate	•	•	•	٠	•	•	•
minum Nitrate minum Sulfate		:	:	:				_	Chlordane Chlorinated Solvante, Dry	:	:	:	:	:	:	:	Ferric Sulfate	•	•	•	•	•	•	
ms		•						_	Chlorinated Solvents, Dry Chlorinated Solvents, Wet			:		•			Fluorine, Gas Fluorine, Liquid		•	•	•	•		
inodiphenyl	•	•	•	•	•		•	_	Chlorine, Dry	•	•	•	٠	•	•	•	Fluorine Dioxide	•	•	•	•	•	•	
Imonia, Gas, 70°C and below Imonia, Gas, Above 70°C		:	:					_	Chlorine, Wet	•	•	•	•	•	•	•	Formaldehyde	•	•	•	•	•	•	
imonia, Gas, Above 70 C imonia, Liquid, Anhydrous								_	Chlorine Dioxide Chlorine Trifluoride		•	•	:	•		:	Formic Acid Fuel Oil	:	:	:	•			
monium Chloride	•	•	•	•	•			_	Chloroacetic Acid	•	•	•	•	•	•	•	Fuel Oil, Acid	•	•	•	•	•	•	
monium Hydroxide	:	:	:	:				_	Chloroacetophenone	•	•	٠	•	٠	•	•	Gasoline, Refined	•	٠	•	٠	•	•	
monium Nitrate monium Phosphate, Monobasic									Chlorobenzene Chlorobenzilate	:	:	:	:	:	:	:	Gelatin Glucose	:	:	:	•			
monium Phosphate, Dibasic	•	•	•	•	•		•		Chloroethane		•	•	•	•	•		Glycerine, Glycerol	•	•	•	•	•		
monium Phosphate, Tribasic	•	•	•	•	•			_	Chloroethylene	•	•	٠	٠	٠	•	•	Glycol	•	٠	•	٠	•	•	
nmonium Sulfate NI Acetate		:		:					Chloroform Chloromethyl Methyl Ether (CMME)		:	:	:	:	:	:	Grain Alcohol Grease, Petroleum Base		:	:	•			
iyl Alcohol	•	•	•	•	•	•	•		Chloronitrous Acid (Aqua Regia)		•	•	•	•	•		Green Sulfate Liquor	•	•	•	•	•		
line, Aniline Oil	•	•	•	•	•		•	_	Chloroprene	•	•	٠	٠	٠	•	•	Heptachlor	•	٠	•	٠	•	•	
line Hydrochloride line Dyes		•	•	•				_	Chlorosulfonic Acid Chromic Acid	:	:	:	:	:	:	:	Heptane Hexachlorobenzene	:	:	:	•			
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tinomy trichloride	•	•	•	•	•			_	Chromium Trioxide	•	•	٠	٠	٠	•	•	Hexachlorocyclopentadiene	•	•	•	٠	•	•	
ua Regia oclors or Arochlor		:	:	:				_	Citric Acid Coke Oven Gas	:	:	:	:	:	:	:	Hexachloroethane Hexadecane	:	:	:	•			
matic Hydrocarbons	•	•	•	•		•		_	Copper Chloride		•	•	•	•	•		Hexamethylene Diisocyanate	•	•	•	•	•		
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ər	•	•	•	•	•		•	_	Cyclohexane	•	•	•	٠	•	•	•	Hydrochloric Acid, dry	•	٠	٠	٠	٠	•	
nzaldehyde nzene, Benzol		:	:					_	Cyclohexanol Cyclohexanone	•	•	•	•	•	•	•	Hydrochloric Acid 20%	•	•	•	•	•	•	
nezene Sulphonic Acid								_	Diazomethane			:		:			Hydrocyanic Acid Hydrofluoric Acid, Anhydrous				•			
nzidine	•	•	•	•	•			_	Dibenzofuran	•	•	•	٠	٠	•	•	Hydrofluoric Acid, Less than 65% Above 70°C	•	•	•	٠	•	•	•
nzoic Acid nzonitrile		:	:	:				_	Dibenzylether Dibromo chloropropano		:	:	:	:	:	:	Hydrofluoric Acid, 65% to Anhydrous, Above 70°C	:	:	:	•	:	:	
nzoquinones		•			•	•			Dibromo chloropropane Dibromoethane			:		•			Hydrofluoric Acid, Up to Anhydrous, 70°C & below Hydrofluorosilicic Acid		:		:			
nzotrichloride	•	•	•	•				_	Dibutyl Phthalate	•	•	•	٠	٠	•	•	Hydrofluosilicic Acid	•	•	•	•	•	•	
nzoyl Chloride nzyl Alcohol		:	:					_	Dibutyl Sebacate		:	:	:	:	:	:	Hydrogen Hydrogen Bromide	:	:	:	:	:	:	
izyl Chloride								_	Dichlorobenzene Dichlorobenzidene		:	:		:			Hydrogen Bromide Hydrogen Fluoride		•	•	•			
diesel (B100)	•	•	•	•	•			_	Dichloroethane	•	•	•	٠	٠	•	•	Hydrogen Peroxide, 10%	•	•	•	•	•	•	•
nenyl '2-chloroethyl)ether	:	:	:	:				_	Dichloroethylene Dichloroethyl Ethor	•	•	•	•	•	•	•	Hydrogen Peroxide, 10-90%	:	•	•	:	:	:	
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2-ethylhexyl)phthalate	•	•	•	•	•		•		Dichloropropane	•	•	•	٠	٠	•	•	lodine Pentafluoride	•	٠	•	٠	٠	•	,
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er Feed Water	•	•	•	•	•			_	Diethanolamine	•	•	•	•	٠	•	•	Isophorone	•	•	•	•	•	•	•
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mine	•	•	•	•	•	•	•		Dimethoxybenzidene		•	•	•	•	•		Lacquer Solvents	•	•	•	•	•		
mine Trifluoride			:					_	Dimethylaminoazobenzene	•	•	•	•	•	•	•	Lacquers	•	•	•	•	•	•	
moform momethane								_	Dimethyl Aniline Dimethylbenzidine	:	:	:	:	:	:	:	Lactic Acid, 70°C and below Lactic Acid, Above 70°C	:	:	:	•			
tadiene	•	•	•	•	•	•	•		Dimethyl Carbamoyl Chloride					•			Lime Saltpeter (Calcium		•	-				
tane	•	•	•	•				_	Dimethyl Ether	•	•	•	•	•	•	•	Nitrates)Lindane	•	•	•	•	•	•	
anone vi Acetate		:	:					_	Dimethylformamide	:	:	:	:	:	:	:	Linseed Oil	:	:	:	:	:	:	
tyl Alcohol, Butanol								_	Dimethyl Phthalate Dimethyl Sulfate		:	:	:	:			Liquified Petroleum Gas Lithium Bromide		•	•	:			
tyl Amine	•	•	•	•	•	•	•		Dinitrophenol	•	•	•	•	•	•		Lithium, Elemental	•	•	•	•	•	•	
-Butyl Amine	•	•	•	•				_	Dinitrotoluene	•	•	•	٠	•	•	•	Lubricating Oils, Refined	•	•	•	٠	•	•	_ 1
yl Methacrylate	•							_	Dioxane Diphenylhydrazine	•	•	•	•	:	:	:	Lubricating Mineral or Petroleum Types Sour	•	•	•	•			
yric Acid	•	•								•	•	•	•					•						

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

Image: 1		SICHEM ET60	SICHEM® S11- S90	SICHEM® S50	SICHEM® S33 - S91	S58 -	559 -	N M		SICHEM ET60	SICHEM® S11- S90	SICHEM® S50	SICHEM® S33 - S91	SICHEM® S58 - S60	SICHEM® S59 - S93	DIAPHRAGM		SICHEM ET60	SICHEM® S11- S90	SICHEM® S50			S59 -	M
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Month	Methyl Ethyl Ketone (MEK)	•	•	•	•	•	•	•	Potassium Dichromate	•	•	•		•	•	•	Styrene	•	•			•	•	•
Moreir Diffsion • <																	5							
Method Model Mode	Methyl Isobutyl Ketone (MIBK)		•	•	•		•	•	Potassium lodide	•	•	•	•		•	•	Sulfur Chloride	•	•	•	•	•	•	•
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Mobin Adal Madis																								
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Neutrina I I PolyMinia PolyMini	Monomethylamine				•				Propionaldehyde								Sulfuric Acid, 75-98%, 70°C and below							•
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Paraffin Image: Constraint of the cons																								
Parathion Image: Constraint of the con																								
Pentachloronitrobenzene • • • • • • • • • • • • • • • • • • •	Parathion	•	•	•	•	•	•	•	Sewage	٠					•	•	Tap Water					•	•	•
Pentachlorophenol Pentachlorop																								
Pentane							1.1																	
Perchloroethylene •	Pentane								Sodium Bicarbonate, Baking Soda						•	•	Zinc Chloride					•	•	
Petroleum Ols, Crude Petroleum Ols, Refined Phenol Phenoleediamine Petroleum Ols, Refined Phenol Phenoleediamine Phenoleediam																	Zinc Sulfate	•	•	•	•	•	•	•
Petroleum Olis, Refined • • • • • • • • • • • • • • •	Petroleum Oils, Crude	•	•	•	•	•	•	•	Sodium Chlorate	•	•	•	•	•	•	•	 SUITABLE 							
Phenoliamine • • • • • • • Sodium Cyande • • • • • • • • • • • • • • • • • • •																		TION:	3					
Phosgene • • • • • Sodium Hydrogen Sulphite •	Phosgene								Sodium Hydrogen Sulphite															

All technical data is based on laboratory tests. Planichem reserves the right to modify the characteristics of its entire product range without obligation to anyone.





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