

# CHEMICAL COMPATIBILITY TABLES

Diaphragm Material:									Diaphragm Material:										
	Cu Alloy	Carbon Steel	St. st. I	PTFE	Nickel 200	Monel 400	Hastelloy C276	Tantalum		Titanium	Cu Alloy	Carbon Steel	St. st. I	PTFE	Nickel 200	Monel 400	Hastelloy C276	Tantalum	Titanium
abietic acid	l	l	g	g	g	g	g	g	g	amines / amination	n	l	g	g	g	g	g	g	
acetanilide	g	g	g	g	g	g	g	g	g	amino acid blends	n	n	g	g	g	g	g	g	
acetic acid	n	l	l	g	n	l	l	g	g	2-amino anthrachino	g	g	g	g	g	g	g	g	
acetic aldehyde	g	l	g	g	g	g	g	g	g	P-amino benzene	g	l	g	l	g	g	g	g	
acetoneacetic ester	g	l	g	g	g	g	g	g	g	M-amino benzene sulf. acid	g	g	g	g	g	g	g	g	
acetonycyanhydrine	g	l	g	g	g	g	g	g	g	P-amino benzene sulf. acid	g	g	g	g	g	g	g	g	
acetone	g	g	g	g	g	g	g	g	g	amino benzoic acid	g	g	g	g	g	g	g	g	g
acetophenetidine	g	n	g	g	g	g	g	g	g	5-amino / 2 oxybenzoic acid	g	g	g	g	g	g	g	g	g
acetophenone	g	g	g	g	g	g	g	g	g	M-aminophenole	g	g	g	g	g	g	g	g	g
acetylacetone	g	g	g	g	g	g	g	g	g	C-aminophenole	g	g	g	g	g	g	g	g	g
acetylcellulose	l	n	g	g	g	g	g	g	g	aminoplastics	g	l	g	g	g	g	g	g	g
acetylchloride	n	l	l	l	g	g	g	g	g	2-aminopydrine	l	l	g	g	g	g	g	g	
acetylene	g	g	g	g	g	g	g	g	g	P-aminosalicyclic acid	l	l	g	g	g	g	g	g	g
acetylsalicyclic acid	n	g	g	g	g	g	g	g	g	ammonium hydroxide	l	g	g	g	l	l	g	l	g
acetylthiopropene	l	g	g	g	g	g	g	g	g	ammonium acetate	l	g	g	g	g	g	g	g	
acid blends	n	l	l	g	n	n	n	g	l	ammonium alum	n	g	l	g	n	n	g	g	
acid pit water	g	g	g	n	n	n	n	g	l	ammonium bicarbonat	n	g	g	g	n	n	g	g	
acid sodium sulphate	g	g	g	g	g	g	g	g	g	ammonium bromide	g	l	g	g	g	g	g	g	g
acridine	g	g	g	g	g	g	g	g	g	ammonium carbonate	g	g	g	g	g	g	g	g	g
acroliene	g	g	g	g	l	l	g	g	g	ammonium chloride	n	l	g	g	g	g	g	g	g
acrylic acid ethylester	g	g	g	g	g	g	g	g	g	ammonium citrate	g	l	g	g	g	g	g	g	g
acrylic silicate	g	g	g	g	g	g	g	g	g	ammonium difluoride	g	g	g	l	l	g	g	g	g
acrylonitrile	g	g	g	g	g	g	g	g	g	ammonium diphosphate	l	l	g	g	g	g	g	g	g
adipic acid	g	g	g	g	g	g	g	g	g	ammonium disulfite	l	l	g	g	g	g	g	g	g
aktivin	g	g	g	g	g	g	g	g	g	ammonium fluoride	l	l	l	l	l	l	l	l	l
alcane sulphonic acid	n	n	g	g	l	g	g	g	g	ammonium fluorsilicate	l	g	g	g	g	g	g	g	g
alcoholic beverages	g	n	g	g	g	g	g	g	g	ammonium formiate	g	l	g	g	g	g	g	g	g
alizarine	g	g	g	g	g	g	g	g	g	ammonium molybdate	g	g	g	g	g	g	g	g	g
alkyd resins	g	l	g	g	g	g	g	g	g	ammonium monophosphate	l	l	g	g	g	g	g	g	g
alkylaryl sulfonat	g	g	g	g	g	g	g	g	g	ammonium nitrate	n	l	g	g	n	n	g	g	g
alkylation	g	g	g	g	g	g	g	g	g	ammonium oxalate	g	l	g	g	g	g	g	g	g
alkylchloride ether	l	l	l	l	g	g	g	g	g	ammonium perchlorate	l	g	g	g	g	g	g	g	g
alkylphthaline sulf. acid	l	l	l	l	g	g	g	g	g	ammonium persulphate	n	n	l	g	n	n	g	g	g
allyl amine	n	g	g	g	g	g	g	g	g	ammonium phosphate	g	g	g	g	l	l	g	g	g
allyl chloride	g	g	g	l	g	g	g	g	g	ammonium picrate	n	l	g	g	g	g	g	g	g
allyl sulphide	l	g	g	g	g	g	g	g	g	ammonium rhodanide	n	l	g	g	g	g	g	g	g
allylic alcohol	l	g	g	g	g	g	g	g	g	ammonium sulphamate	n	l	g	g	g	g	g	g	g
aloe	n	g	g	g	g	g	g	g	g	ammonium sulfate	g	l	g	g	g	g	g	g	g
alum acetate	n	g	g	g	g	g	g	g	g	ammonium sulfide	n	l	g	g	g	g	g	g	g
alum alkyle	g	g	g	g	g	g	g	g	g	ammonium sulfite	g	l	g	g	n	n	l	g	g
alum chlorate	g	g	g	g	g	g	g	g	g	amyl acetate	g	l	g	l	g	g	g	g	g
alum chloride	n	l	l	g	l	l	g	g	l	amyl alcohol	g	l	g	g	g	g	g	g	g
alum ethylate	g	g	g	g	g	g	g	g	g	amyl amine	n	l	g	g	g	g	g	g	g
alum fluoride	l	l	g	g	g	g	g	g	g	amyl borate	g	l	g	g	g	g	g	g	g
alum formiate	l	g	g	g	g	g	g	g	g	amyl chloride	g	l	l	g	l	g	g	g	g
alum melts	n	g	n	n	n	n	n	n	n	amyl laurate	g	g	g	g	g	g	g	g	g
alum nitrate	n	g	g	g	g	g	g	g	g	amyl mercaptane	g	l	g	g	g	g	g	g	g
alum hydroxide	g	g	g	g	g	g	g	g	g	amyl nitrate	g	g	g	g	g	g	g	g	g
alum salts	g	g	g	g	g	g	g	g	g	amyl nitrite	g	g	g	g	g	g	g	g	g
alum silicofluoride	g	n	g	g	g	g	g	g	g	P-amyl propionate	g	l	g	g	g	g	g	g	g
alum sulphate	n	n	l	g	n	l	g	g	g	aniline	l	l	g	g	l	l	l	g	g

Key to Resistance Ratings :

g = good; l = limited; n = none; blank = no data currently available



Seals ~  
Diaphragm

# CHEMICAL COMPATIBILITY TABLES

Diaphragm Material:								Diaphragm Material:										
	Cu Alloy	Carbon Steel	St. st. I AISI 316	PTFE	Nickel 200	Monel 400	Hastelloy C276		Tantalum	Titanium	Cu Alloy	Carbon Steel	St. st. I AISI 316	PTFE	Nickel 200	Monel 400	Hastelloy C276	Tantalum
Chemical:								Chemical:										
aniline black	g	l	g	g	g	g	g	benzaldehyde disulf. acid	g	g	g	g	g	g	g	g	g	g
aniline hydrochloride	n	n	g	n	n	g		benzamide	n	l	g	g	g	g	g	g	g	g
aniline sulphate	n	g	g	g	g	g	g	benzanthrene	g	g	g	g	g	g	g	g	g	g
aniline sulphite	l	l	g	g		g		benzine	g	l	g	g	g	g	g	g	g	g
anis aldehyde	g	l	g	g	g	g	g	benzene	l	l	g	g	g	g	g	g	g	g
anisidine	g	l	g	g	g	g	g	benzene 1/3 disulf. acid	l	g		g	g	g	g	g	g	g
anis oil	g	l	g	g	g	g	g	benzene peroxide		g		g	g	g	g	g	g	g
anisol	g	g	g	g	g	g	g	benzene sulfonic acid		l	g	g	l	g	g	g	g	g
anthracene oil	g	g	g	g	g	g	g	benzidine	g	g	g	g	g	g	g	g	g	g
antimony chloride		n	n	g	g	g	g	benzidine 2.2 disulf. acid	l	g	g	g	g	g	g	g	g	g
antimony melt			n	n				benzidine 3 sulfonic acid	g	g	g	g	g	g	g	g	g	g
anthrachinone	g	g	g	g	g	g	g	benzile	g	g	g	g	g	g	g	g	g	g
anrachininesulfone acids	l	g	g	g	g	g	g	benzilic acid	l	l	g	g	g	g	g	g	g	g
apple juice / pulp	n	n	g	g	g	g	g	benzoic acid	l	l	g	g	g	l	g	g	g	g
aqua regia	n	n	n	g	n	n	g	benzoic acid anhydride	g	n	g	g	g	g	g	g	g	g
aquasal sol.			g					2 benzoic acid	g	l	g	g	g	g	g	g	g	g
arachic acid	l	l	g	g	g	g	g	benzoic acid sulfimide	l	g		g	g	g	g	g	g	g
aralene	l	g	g	g	g	g	g	benzoine		g	g	g	g	g	g	g	g	g
argon	g	g	g	g	g	g	g	benzonitrile	g	g	g	g	g	g	g	g	g	g
arsenic	l	g	l					1.4 benzoquinone	l	g		g	g	g	g	g	g	g
arsenic acid / pentoxide	l	l	g	g	l	l	g	benzotrchloride	l		n	g	g	g	g	g	g	g
arsenic acid	n	n	g	g	g	g	g	benzotrifluoride		g	g	g	g	g	g	g	g	g
arsenious chloride	n	l	g	g	g	g	g	O-benzoylbenzoic acid	g	g	g	g	g	g	g	g	g	g
arsenic trioxide		g	g	g	g	g	g	benzyl chloride	l	g	l	l	g	g	g	g	g	g
asordine			g					benzyl acetate	g	l	g	g	g	g	g	g	g	g
aspartic acid	n	g	g	g		g	g	benzyl alcohol	g	l	g	g	g	g	g	g	g	g
asphalt	l	l	g	g	g	g	g	benzyl amine		g	g	g	g	g	g	g	g	g
ASTM oil 1/2/3			g					benzyl benzoate	g	g	g	g	g	g	g	g	g	g
air / atmosphere	g	l	g	g	g	g	g	benzyl butylphthalate	g	g	g	g	g	g	g	g	g	g
azobenzene	g	g	g	g	g	g	g	benzyl cellulose		g	g	g	g	g	g	g	g	g
azo yellow	l	n	g					benzyl chloide	g	n	g		g	g	g	g	g	g
bacitracine		n	g				g	benzyl ethylaniline	g	g	g	g	g	g	g	g	g	g
baking powder	l	l	g	g	g	g	g	benzyl phenol	g	l	g	g	g	g	g	g	g	g
barium carbonate	g	l	g	g				benzyl salicylate	g	l	g	g	g	g	g	g	g	g
barium chlorate	g	l	g	g	g	g	g	benzyl sulfanil acid	g	l	g	g	g	g	g	g	g	g
barium chloride	n	l	g	g	l	l	g	bergamot oil	l	l	g	g	g	g	g	g	g	g
barium cyanide	n	g	g	g	n	n	n	beryllium chloride	g	l	l	g	l	l	g	g	g	g
barium hydroxide	g	g	g	g	g	g	g	beryllium fluoride	g	l	g		g	g	g	g	g	g
barium nitrate	l	l	g	g	g	g	g	beryllium sulphate			g	g	g	g	g	g	g	g
barium oxide	l	l	g	g	g	g	g	betumen		l	g	g	g	g	g	g	g	g
barium peroxide	n	l	g	l	l	n	n	black iron ink			g							
barium salt			g					black ive			g							
barium sulphate	g	g	g	g	g	g	g	bleaching liquid	n						g			
barium sulphide (poly)	l	l	g	g	l	g	n	blood	g	n	g	g	g	g	g	g	g	g
basleum FG (TM)			g					borax	g	g	g							
batoxin (TM)			g					bordeaux liquor	l	l	g	g	g	g	g	g	g	g
battery acid			g					boric acid	l	l	l	g	l	l	g	l	g	g
beer	g	g	g	g	g	g	g	borneol	g	n	g	g	g	g	g	g	g	g
wax (bees')	g	l	g	g	g	g	g	bornyl acetate	g	l	g	g	g	g	g	g	g	g
beer wort	g	g	g	g	g	g	g	bornyl chloride	g			g	g	g	g	g	g	g
benzaldehyde	l	l	g	g	l	l	g	bornyl formiate			g		g	g	g	g	g	g

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Seals ~  
Diaphragm

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Diaphragm Material:								Diaphragm Material:										
	Cu Alloy	Carbon Steel	St. st. I AISI 316	PTFE	Nickel 200	Monel 400	Hastelloy C276		Tantalum	Titanium	Cu Alloy	Carbon Steel	St. st. I AISI 316	PTFE	Nickel 200	Monel 400	Hastelloy C276	Tantalum
boron phosphate	l	l			n	n	n		calcium carbonate	g	l	g	g	g	g	g	g	g
boron trifluoride	l	l	g	g		g			calcium chlorate	g	l	g	g	l	g			g
barkish water	l	l			l	l			calcium chloride	n	l	g	g	g	g	g	g	g
brake fluide	g	g	g	g	g	g	g	g	calcium chromate	g	g	g	g	g	g	g	g	g
brandy	l	l	g						calcium fluoride	g	g	g	g	g	g	g	n	
brindi acid conc.				g					calcium gluconate	g	g	g	g	g	g	g	g	g
bromic acid	n	n	n		n	n			calcium hydride	g	g	g		g	g	g		
bromine	l	l	n	g	l	l	l	g	calcium hydroxide	g	g	g	g	g	g	g	g	
bromine trifluoride		g	g		g	g		n	calcium hypochlorid	n	l	l		l	l	g	g	g
bromobenzene	g	l	g	g	g	g	g	g	calcium lactate	g	l	g	g	g	g	g	g	g
bromform		l	g		g	g	g	g	calcium nitrate	g	l	g	l	g	g	g	g	g
1.3 butadiene		l	g	g					calcium oxalate	g	l	g	g	g	g	g	g	g
butane	l	l	g	g	g	g	g		calcium oxide	g	g	g		g	g	g		
butane diol	g	l	g	g	g	g	g	g	calcium permanganate		l	g	g	g	g	g	g	g
1.4 butine / 2 diol	g	l	g	g	g	g	g	g	calcium peroxide		l	g	g					
butter	n	n	g	g				g	calcium phosphate	g	l	g	g	g	g	g	g	g
buttermilk	l	n	g	g	l	l		g	calcium rhodanide	g	l	l	g	g	g	g		
butyl acetate	l	l	g	l	l	l	g	g	calcium stearate	g	l	g	g	g	g	g	g	g
butyl alcohol	g	l	g	g	g	g	g	g	calcium sulfamate		g	g	g	g	g	g	g	g
butyl amine	n	l	g		g	g	g		calcium sulphate	g	l	g	g	g	g	g	g	g
butyl benzonate	g	g	g	g	g	g	g		calcium sulphide	n	g	g	g	l				
butyl butyrate		l	l		g	g	g	g	calcium sulphite	l	l	g	g	l	l		g	g
butyl chloride		l	l		g	g	g	g	calcium tungstate			g	g	g	g	g		
butylene	g	l	g	g	g	g	g	g	camphene	g	g	g	g	g	g	g	g	g
1,4 butylene / 2 diol	g	g	g	g	g	g	g	g	camphor	g	g	g	g	g	g	g	g	g
N-butyl ether	g	g	g	g	g	g	g	g	camphoric acid	g	n	g	g	g	g	g	g	g
butyl glycolate	g	l	g	g	g	g	g	g	D-camphor sulfonic acid	l	l	g	l	l	g	g		
N-butyl glycol	g	g	g	g	g	g	g	g	N-capric acid	l	l	g	g	l	l	g	g	g
butyl mercaptane	n	l	g		g	g			E-caprolactame		l	g		g	g	g		
butyl oxatole	g	l	g	g	g	g	g	g	capronic acid	l	l	g	g	l	l	g	g	g
butyl phnol	g	l	g		g	g	g		capronic aldehyde	g	l	g	g	g	g	g	g	g
iso butyl phosphate	g	l	g		g	g	g	g	carpylic acid	l	g	g	l	l	g	g	g	
butylphthalate		l	g		g	g	g	g	carpylic alcohol	g	l	g	g	g	g	g	g	g
butyl stearate	l	l	g	g	g	g	g	g	capsaicin (TM)		l	g		g	g	g		
butyl urethane		g	g		g	g	g	g	carbazole		g	g		g	g	g	g	g
buthldehyde	g	l	g	g	g	g	g	g	carbitol	g	g	g	g	g	g	g	g	g
butyric acid	l	n	g	g	n	l	g	g	carcolic acid	l	l	g	g	l	l	g	g	g
N-butyric acid anhydride		l	g		g	g	g	g	carbolineum	g	g	g	g	g	g	g	g	g
butyric acid chloride	l		l		g	g	g		carbon dioxide	l	l	g	g	l	l	g	l	l
Y-butyrolactone	g	l	g		g	g	g	g	carbonized mass		n	g		g	g	g		
cadmium chloride		n	g	g	l		g	g	carbon monoxide	l	l	g	g	l	l	g	l	l
cadmium cyanide		n		g	n				carbon sulfide	l	g	g	g	g	l	g	g	g
cadmium melts	n	g	l	n					carbon tetrachloride	l	l	g	g	g	g	g	g	g
cadmium sulphate	g	l	g	g	g	g	g	g	N-4 carboxyhenyl y acid		g	g	g	g	g	g	g	g
caffeine	g	l	g	g	g	g	g	g	carrollite	l	l	g	g	g	g	g	g	g
calcium acetate	g	l	g	g	g	g	g	g	caro acid		n		n				g	
calcium arseniate	g	g	g						carotene	g	g	g	g	g	g	g	g	g
calcium benzoate	g	l	g	g	g	g	g	g	casara	g	l	g	g	l				
calcium bicarbonate	g	l	g	g	g	g	g	g	caseine			g	g	g	g	g	g	g
calcium bisulphite	n	n	g	g	n	n	g	g	cashew	g	l	g	g					g
calcium bromide	l	l	l	g	l	l	g	g	caster oil	g	l		g					

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Diaphragm Material:	St. st. I AISI 316							Diaphragm Material:	St. st. I AISI 316									
	Cu Alloy	Carbon Steel	PTFE	Nickel 200	Monel 400	Hastelloy C276	Tantalum		Titanium	Cu Alloy	Carbon Steel	PTFE	Nickel 200	Monel 400	Hastelloy C276	Tantalum	Titanium	
Chemical:								Chemical:										
cavit	n	g		g	g	g	g	g	chlorotrifluorethylene	g	l	g	n	g	g	g		
cesium chloride	l	l		g	g	g	g	g	chloroxylene	g	l	g	g	g	g	g		
cesium hydroxide	l	l	g	l	l				chocolate			g						
celluloid	g	l	g	g	g	g	g	g	cholesterin	g	g	g	g	g	g	g	g	
cellulose acetobutyrate	g	l	g	g	g	g	g	g	choline	n	l	g	g					
cellulose ether		l	gg						choline chloride	n	l							
cellulose nitrate	g	l	g	g	g	g	g	g	chromic acid / oxide	n	l	g	g	n	n	n	g	g
cellulose paint	l	l	g	g	g	g	g	g	chromium alum	l	n	l	g	l	l	g	g	g
cellulose tripropionate	g	l	g	g	g	g	g	g	chromium bath			g						
ceresine	g	g	g	g	g	g	g	g	chromium chloride		n	l	g	l	g	g		
cerium chloride	g	l		g	g		g		chromium fluoride	n	n			g		g		
cerium fluoride	l		g				g		chromium glucosate		g	g		g	g		g	g
cerium sulphate	l		gg						chromium nitrate			g	g					g
cetyllic alcohol	g	l	g	g	g	g	g	g	chromium oxide / hydroxide	g	g	g	g	g	g	g	g	g
chaulmooga acid	l	l	g	g	g	g	g	g	chromium phosphate		l	g	g	g	g	g	g	g
cheese		g							chromium sulphate	l	n	l	g	l	l	g	g	
chloracetic acid	n	l	l	g	l	l	g	g	chromyl chloride		g	g		g	g	g	g	g
chloramine	g	l	g	g	g	g	g	g	cider	l	n	g	g	g	g	g	g	g
chloraminebenzoic acid	l	g	g	g	g	g	g	g	citral	g	l	g	g	g	g	g	g	g
chloramphenicol	n	g	g				g	g	citric acid	n	n	g		g	l		g	
chloranile	g	g	g	g	g	g	g	g	citronellal	g	l	g		g	g	g	g	g
chloraniline	l	l	g	g	g	g	g	g	citronellol	g	l	g	g	g	g	g	g	g
chloranthraquinone	g	g		g	g	g	g	g	citrus fruit	l	n	g	g	l	l	g	g	g
chlordane	l	l	g	g	g				citrus oil	g	l	g	g	g	g	g	g	g
chlorhydrine	l	l	g	g	g	g	g	g	city gas	l	g	g	g	l	l	g	g	g
chloric acid	n	n	g	n	n		g		clophene			g						
chlorinated water		l	g						clupanadioc acid	l	n	g	g	l	g	g	g	g
chlorine	l	l	l	g	l	l	g	l	cocaine	g	l	g	g	g	g	g	g	g
chlorine alum			g						codeine	g	n	g	g					g
chlorine cresol	g	l	g	g		g	g	g	codeine salt	g	n	l	g	g	g	g	g	g
chlorine dioxide	l	l	g		g	n	g		cod liver oil	l	l	g	g	g	g	g	g	g
chlorine diphenyl	g	g	g	g	g	g	g	g	coffe	g		g		g	g			
chlorobenzene	g	l	g	g	g	l	g	g	colza oil			g						
chlorobenzenetrifluoride	g	g		g	g	g			concrete	g	l	g	g	g	g	g	g	g
chlorobenzoic aldehyde	l	g	g	g	g	g	g	g	coniferylic alcohol	g	l	g	g	g	g	g	g	g
chloroethene benzene	l	l		g	g	g	g	g	copal	g	l	g		g	g	g	g	g
chloroform	l	l	g	g	g	g	g	g	copper acetate	l	l	g	g	g	g	g	g	g
chloroformic acid	g	l					g		copper carbonate	l	l	g	g	g	g	g	g	g
4 chloro 2 nitriline	l	g		g	g	g			copper chloride	n	l	n	g	l	l	n	g	g
chloronitrobenzene	l	g	g	g	g	g	g	g	copper cyanide			g						
chloronitrobenzoic acid	l	g	g	g	g	g	g	g	copper nitrate	n								
4 chloro 2 nitrophenol	l	g		g	g	g			copper sulphate	l	l	g		g	g			
chlorophenol	g	l	g	g	g	g	g	g	copper tetramine compound	n	l	g	g	g	g	g	g	g
chlorophenoxyacetic acid	l	g	g	g	g	g			corn oil			g						
chlorophylle	g	g	g	g	g	g	g	g	cortex cascarae sagradae	l	n	g		g	g	g		
chloropikrine	l	g	g	g	g	g	g	g	cotton see oil	n	l	g	g	g	g	g		
chloroprene	l	g		g	g	g			creosote	l	l	g	g					
chlorosilane	g	g		g	g	g	g	g	cresol	g	l	g	g	g	l	g	g	g
chlorosulfonic acid	l	l	g	l	l	g	g	g	croton aldehyde	g	l	g	g	g	g	g	g	g
chlorotoluene	g	g	g	g	g	g	g	g	crotonic acid	g	n	g		g	g	g	g	g
chlorotoluidine	l	l	g	g	g	g			cumaric algehyde			g	g	g	g	g	g	g

Key to Resistance Ratings :

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# CHEMICAL COMPATIBILITY TABLES

Diaphragm Material:	Chemical:								Diaphragm Material:	Chemical:									
	Cu Alloy	Carbon Steel	St. st. I AISI 316	PTFE	Nickel 200	Monel 400	Hastelloy C276	Tantalum		Titanium	Cu Alloy	Carbon Steel	St. st. I AISI 316	PTFE	Nickel 200	Monel 400	Hastelloy C276	Tantalum	Titanium
cumarine			g		l	n		g	g	diglycolic acid dibutylester	g	l	l	g	g	g	g	g	g
cumarone resin	g	g	g	g	g	g	g	g	g	diisobutyle	g	g	g	g	g	g	g	g	g
cumene	g	l	g	g	g	g	g	g	g	diisopropylectone			g	g					
cumohydroperoxide	n	g	g	g	g	g	g	g	g	dimenthyl aniline			g						
cyanacetic acid	n	l	l	g				g	g	dimenthyl hyiphenylcarbinole	g	g	g		g	g		g	g
cyan amide	g	g	g	g	g	g	g	g	g	dimenthyl ether	g	g	g	g	g	g	g	g	g
cyanic chloride	n	g	g	g	g	g	g	g	g	dimenthyl formamide			g	g					
cyanogen chloride	l	g	g	g	g	g	g	g	g	dioctylphthalate			g						
cyanogen/dicyanogen	l	g	g					g	g	dioxane	g	g	g	g	g	g	g	g	g
cyclohexane	g	g	g	g	g	g	g	g	g	dpentene			g						
cyclohexanol	g	g	g	g	g	g	g	g	g	diphenyl	g	g	g	g	g	g	g	g	g
cyclohexanol ester	g	l	g	g	g	g	g	g	g	diphenyl amine	l	g	g		g	g	g	g	g
cyclohexanone				g						diphenyl oxide	g	g	g	g	g	g	g	g	g
cyclohexanone oxime	l	l	g	g				g	g	diphenylketone	g	g	g	g	g	g	g	g	g
cyclohexene	g	l	g	g	g	g	g	g	g	diphenyl propane	g	g	g	g	g	g	g	g	g
cyclohexylamine	n	g	g	g	l	l				dipyoxidiphenyle sulfone	g	g							
cyclohexylamine carbonate	l	g	g							DMDT	l	g		g	g	g	g	g	g
cyclohexylamine laurate	g	g	g	g	g	g	g	g	g	drilling oil	g	g	g	g	g				
cyclopentane	g	g	g	g	g	g	g	g	g	dye bath			g						
cyclopolyolefine			g	g						egg (powder)		g	g		g	g		g	
P-cymol	g	l	g	g	g	g	g	g	g	enamels	g	l	g	g					
cynacetamide			g	g						essential oils	l	l	g	g	g	g	g	g	g
cystine	l	l	g	g				g	g	ethane	g	g	g	g	g	g	g	g	g
dekalin (TM)				g						ethanol	g	g	g	g	g	g	g	g	g
delegol (TM)				g						ethanolamine		g	g				g	g	
desmodur (TM)				g						ether			g						
desmophen (TM)				g						ethyl acetate	g	g	g	l	l	l	g	g	g
deuterium oxide	g	g	g		g	g	g	g	g	ethyl acrylate			g						
develloper (photo)			g							ethyl benzene	g	g	g	g	g	g	g	g	g
dextrane			g	g		g	g	g	g	ethyl butyrate	g	g	g	g	g	g	g	g	g
dextrine	g	g	g	g	g	g	g	g	g	ethyl cellulose			g	g	l	l	g	g	g
dextrose	g	l	g	g	g	g	g	g	g	ethyl chloride	g	l	g	g	g	g	g	g	g
diacetone alcohol				g						ethyl ether	g	l	g	g	g	g	g	g	g
dialkyl sulphate	g	l	g	g	g	g	g	g	g	ethyl glycol	g	g	g	g	g	g	g	g	g
diazo compounds		l	l	g				g	g	ethyl lactate	g	g	g	g	g	g	g	g	g
dibenzyle	g	g	g	g	g	g	g	g	g	ethylene	g	g	g	g	g	g	g	g	g
dibenzylether				g						ethylene bromide	l	l	g	g	g	g	g	g	g
dibutyl phthalate	g	g	g	g	g	g	g	g	g	ethylene chlorhydrine	g	g	g	g	g	g	g	g	g
dibutyl dithiogluclate			g					g	g	ethylene chloride		g	g	l	g	g	g	g	g
dibutylthiourea		g	g						g	ethylene cyanhydrine		g	g		g	g	g	g	g
dichlorobenzene				g						ethylene diamine		l	g			l	g		
dichlorobutylene				g						ethylene dichloride				g					
dichloroethane				g	g					ethylene formiate	g	l	g	g	g	g	g	g	g
dichloroethylene	g	l	g	g	g	g	g	g	g	ethylene glycol	g	l	g	g	l	l			
dichlorophenyle (P)	g	g	g	g	g	g	g	g	g	ethylene imine		g	g						
diethyl amine	n	l	g	g	l	l	g	l	g	ethylene mercaptane		l	g		l		g		
diethyl aniline	l	l	g	g	g	g	g	g	g	ethyl nitrite		g	g						
diethyl glycol				g						ethylene oxide	g	g	g	g	g	g	g	g	g
diethyl ether				g						ethyl silicate				g					
diethyl sebacate				g						ethyl stearate	g	g	g	g	g	g	g	g	g
diglycolic acid	l	l	g	l	l	g	g	g	g	ethyl sulphuric acid	n						g	g	

Key to Resistance Ratings :

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Seals ~  
Diaphragm

# CHEMICAL COMPATIBILITY TABLES

Diaphragm Material: Chemical:	Diaphragm Material:							Diaphragm Material: Chemical:	Diaphragm Material:									
	Cu Alloy	Carbon Steel	St. st. I AISI 316	PTFE	Nickel 200	Monel 400	Hastelloy C276		Tantalum	Titanium	Cu Alloy	Carbon Steel	St. st. I AISI 316	PTFE	Nickel 200	Monel 400	Hastelloy C276	Tantalum
eukalin (TM)									hexamethylenetetramine									
extremely pure water	g	l	g	g	g	g	g	g	hexane	l	l	g	g	l	n	g	g	g
fatty acid	l	l	g	g	g	g	g	g	humic acid	g	l	g	g	g	g	g	g	g
fatty alcohol	g	l	g	g	g	g	g	g	hydraxylamine sulphate	g	g							
fatty alcohol sulphates	n	l	g	g	g	g	g	g	hydrazine	l	l			n	n	l		
fats and waxes	l	l	g	g	g	g	g	g	hydrazine sulphate	l	l							
ferric chloride	n	l	n	g	n	n	n	g	hydrobromic acid					g	n	n	l	g
ferric potassium cyanide	g	l	l	g	g	g	g	g	hydrochloric acid	l	l	l	g	g	g	g	g	l
ferric sulphate	n	l	g	g	n	n	n	g	hydrocyanic acid	n	l	g	g	n	n	g	g	g
ferrous chloride	n	l	l	g	l	l	g	g	hydrogen	g	l	g	g					
ferrous potassium cyanide	g	g	g	g	g	g	g	g	hydrogen bromide	g	l	n	g	l		l	g	
ferrous sulphate	n	l	g	g	g	g	g	g	hydrogen gas				g	g				
fish oil				g					hydrogen iodide	l	l	l	g	l	n	g	g	g
fixing salts			g						hydrogen peroxide	l	l	g	g	l	l	n	g	n
fluor benzene			g						hydrogen sulphide	l	l	g	g	l	g	g	g	g
fluoric acid	l	l	n	g	l	l	l	n	hydroquinone	l	l	g	g	g	g	g	g	g
fluor hydrocarbon	g	g	g	n	g	g	g	l	hypochloric acid	n	n	n	g					
fluorine	l	l	l	l	l		n	l	impregnating oil	g	l	g	g	g	g	g	g	g
fluoroboric acid			g						indol	g	g	g	g	g	g	g	g	g
fluorocarbon	g	l	l	g	g	g	g		ink (ferrogallic)		l		g					
fluorocarbonic acid	g	l	l	g	l	l	g	l	iodine	n	l	l	g	l	l	l	g	l
fluoro chlorocarbon	g	l	l	g	g	g	g		iodoform	n	l	l		g	g	g	g	g
formaldehyde / formaline	l	l	g	g	g	g	g	g	iron nitrate	n	n	g	g	n	n		g	g
formamide		l	g	g	l	g	g	g	iron phosphate			g						
formic acid	n	n	g	g	l	l	g	g	isatine	g	l	g	g	g	g	g	g	g
freon (TM)	g		g						isobutyl alcohol				g					
fruit			g						isooctane									
fruit juice	n		g	g					isopropyl acetate				g					
furane			g						isopropyl alcohol				g					
furfural	l	l	l	g	l	l	g	g	isopropyl chloride				g					
gallic acid			g						isopropyl ether				g					
gelatin	l	l	g	g	g	g	g	g	JP 4 / JP 5									
generator gas			g						kerosene				g					
genodyn (TM)			g						ketchup			g						
glacial acetic anhydride	n	l	g	g					lactame				g					
glacial acetobromic acid			g						lactic acid	l	l	l	g	n	n	l	g	g
gluconic acid	g	l	g	g	g	g	g	g	lactrose	g	l	g	g	g	g	g	g	g
glucose			g	g	g				lacquer tinner	g								
glue	l	l	g	g					lard	g	g	g						
glutamic acid	n	l	g	g	l	g	g	g	lead acetate	l	n	g	g	l	l	g		
glycerine	l	l	g	g	g	g	g	g	lead arseniate	g	g	g	g	g	g	g	g	g
glycol acid	l	l	l	g	l	l	g	g	lead bath (electrolytical)	g	l	g		g				
glycol	l	l	g	g	g	g	g	g	lead bromide	n	l					l		
glycoxy acid		n	g	g	l	l	g	g	lead carbonate	g	l	g	g	g	g	g	g	g
grease			g						lead chloride	l	l	g	g	g	g	g	g	g
halowax oil (TM)			g						lead chromate	g	g	g	g	g	g	g	g	g
hemp / jute	l	l	g	g	g	g	g	g	lead dioxide	g	g	g	g	g	g	g	g	l
heptane	g	g	l	g	g	l	g	g	lead (molten)	n	l	l	n	n	n			
hexachlorobutadiene			g						lead nitrate	g	l	g	g	g	n	g	g	g
hexachloroethane	l	l	l	g	l	l	g		lead nitride	g	l	g	g	g	g	g	g	g
hexaldehyde			g						lead oxide	l	l					l	l	

Key to Resistance Ratings :

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Seals ~  
Diaphragm

# CHEMICAL COMPATIBILITY TABLES

Diaphragm Material:	Chemical:							Diaphragm Material:	Chemical:									
	Cu Alloy	Carbon Steel	St. st. I AISI 316	PTFE	Nickel 200	Monel 400	Hastelloy C276		Tantalum	Titanium	Cu Alloy	Carbon Steel	St. st. I AISI 316	PTFE	Nickel 200	Monel 400	Hastelloy C276	Tantalum
lead rhodanide	g	n	g	g	g	g	g	g	mercury salt	n	n						g	
lead sulphate	g	l	g	g	g	g	g	g	mersolates		l	l	g	g	g	g	n	
lead sulphide	n	l	l		n				mesamoll (TM)				g					
lead tetra-acetate			g			g			methane	g	l	l	g	l	g	g	l	l
lead trinitrosorsocinate			g	g	g	g	g	g	methane chlorobromide	g	g	g	g	g	g	g	g	l
lecithine		l	g	g	g	g	g	g	methanol	l	l	l	g	g	g	g	l	l
levullic acid		n	l	g	l	l	g	g	methyl acetate	l	l	l	l	l	g	g	g	g
lignite tar	l	l	g		g	g	g		methyl acrylate				g					
lime milk			g	g					methyl alcohol	g	g	g	g	g				
limonene	l	l	g	g	g	g	g	g	methyl aldehyde	l	l	g	g					
linseed oil	l		q	q	q	q			methyl amine	n	l	l	q	l	n		g	
liqueur			g						methyl bromide	g	l	l	g	g	g	g	g	
lithium bromide				g					methyl chloride	l	l	l	g	g	g	g	g	g
lithium carbonate	l	l	g	g	g	g	g	g	methyl ethyl cetone	g	l	g	g	g	g	g	g	g
lithium chloride	l	l	l	g	l	l	g	g	methyl formiate	g	g	g	g	g	g	g	g	g
lithium hydride		l	g	l	l				methyl isobutylcetone				g					
lithium hydroxide	n	l	g	l	l	g			methyl silylate				g					
lithium (molten)	n	l	l	g	l	n		g	methylene chloride	l	l	l	g	g	g	g	g	g
litiopone	g	l	g	g	g				milk	l		g	g	l	l			
lysoform			g						molasses	l	l	g	g	g	g	g	g	g
lysol			g						monobrombenzene				g					
magnesium bisulphite	n	l	g	l	l	g	g	g	morphine		n	g	g				g	g
magnesium carbonate	g	l	g	g	g	g	g	g	morpholine	g	g	g	g	g	g	g	g	
magnesium chloride	n	l	l	g	l	g	g	g	mortar	l	l	l	g	q	q	q	q	
magnesium fluoride	l	l	l	g	l	l	l	l	mustard		n	g						
magnesium hydroxide			g	g	g	g			naphthaline	g	g	g	g	g	g	g	g	g
magnesium (molten)	n	l	l	g					naphtaline sulfonic acid	l	l	g	l	l	l	g	l	
magnesium nitrate	l	l	g	g	n	n	n	q	naphtenic acid	l	l	g	g	g	g	g	g	g
magnesium oxide	l	g	g	g	g	g	g	l	naphthochinoline		g	g	g				g	g
magnesium oxychloride	l	l	l	g	q	q	q	q	naphtol		l	q	g	q	g	q	g	q
magnesium silicofluoride		l	g	g	l		n		naphtolen 2 D (TM)				g					
magnesium sulfite	q	l	q	q	q	q	q	q	naphtylamine	l	q	q	q				g	q
magnesium sulphate	l	l	g	g	g	g	g	g	naphtylamine sulfonic acid	l	l	g	g				g	
maleic acid	l	l	g	g	g	g	g	g	nibren wax				g					
maleic acid/anhydride	n	l	g	g	g	g	g	g	nickel choride	n	l	g	l	g	g	g	g	g
maleic anhydride			g						nickel nitrate			g	l	l	l	g	g	
malix acid	g	n	g	g	g	g	g	g	nickel salt		n	g	g					
malonic acid	l	l	g	g	l	l	l	g	nickel sulphate	l	l	g	g	l	l	g	g	g
malt	g	l	g	g	g	g	g	g	nitric acid	n	l	g	g	n	n	n	g	l
maltose	g	g	g	g	g	g	g	g	nitric acid (high concentr.)	n	l	g	g	g	g	g	g	g
manganese dioxide		l	g	g	l	l	l	g	nitrobenzene		g	g	g	g	g	g	g	g
manganese sulphate	l	l	g	g	g	g	g	g	nitrogen	g	l	g	g	g	g	g	g	g
manganic cholride		l	l	g	l	l		g	nitrous acid			l						
manganous chloride			g						nitrous oxide gas				g					
meat			g						novocaine			g						
menthol	l	l	g	g	g	g	g	g	oak extract	l	l	g	g	g	g	g	g	g
mercaptane	l	n	q	g	l	l	q	g	oleic acid	l	l	q	g	l	l			
mercury	n	l	g	g	g	n	l	g	olein				g					
mercury chloride	n	n	l	g	n	n			oleum				g	l	l	l	l	n
mercury cyanide	n	n	g		n	n			olive oil				g					
mercury nitrate	n	n	g		n	n			oxalic acid	n	l		n	l	g	g	l	

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# CHEMICAL COMPATIBILITY TABLES

Chemical:	Diaphragm Material:							Chemical:	Diaphragm Material:									
	Cu Alloy	Carbon Steel	St. st. I AISI 316	PTFE	Nickel 200	Monel 400	Hastelloy C276		Tantalum	Titanium	Cu Alloy	Carbon Steel	St. st. I AISI 316	PTFE	Nickel 200	Monel 400	Hastelloy C276	Tantalum
oxygen	g	l	g	g					potassium persulphate	g	l	g	n	g	g	g	g	
oyster	n	g				g			potassium phosphate	l	l	g	g	g	g	l	g	l
ozone	l	g	g	l	l		g	g	potassium rhodanide	l	g	g	g	g	g	g	g	g
palm oil acid	g	g	g	g	g				potassium silicate	g	l	g	g	g	g	g	l	g
paraffine	g	g	g	g	g				potassium sulphate	g	l	g	g	g	g	g	g	g
peanut butter	g	g	g	g	g		g		potassium sulphide	l	l	g	g	l	l	l	g	
pentachlorodiphenyle			g						propane	g	g	g	g	g	g			
pentane			g						propane chlorobromide	l	l	g		g	g	g	g	
perchlorethylene	l	l	g	g	g	g	g	g	propylene oxide	l	l	g	g					
perchloric acid	n	n	n	g					protein solutions	l	l	g	g	g	g	g	g	g
petrol ether			g						pydraul (TM)			g						
petrol natural gas	l	l	g	g	l	l	g	g	pyridine	l	g	g	g	g	g	g	g	g
petroleum	l	g	g	g					pyrocatechin		l	g		g	g	g	g	g
phenol	l	g	g	l	l	g	g	g	pyrogallol			g						
phenyl benzene									pyrrole			g						
phenyl ether			g						pyruvic acid		n	g		g	g	g	g	
phenyl hydrazine			g						quinic acid	g	n	g	g	g	g	g	g	g
phosphoric acid	n	l	g	g	l	l	l	g	quinine	g	l	g	g	g	g	g	g	g
phosphoric acid anhydride			g						quinine disulphate	g	n	g	g			g		
phosphorous acid			g						quinine hydrochloride		n	n				g	g	
pickling liquid			g						quinine monosulphate	g	n	g	g	g	g	g	g	
pictric acid	n	l	g	g	n	n			quinine sulphate			g						
pine oil			g						quinine tartrate	g	l	g	g	g	g	g	g	
piperidine			g						quinizarine		g	g		g	g	g	g	g
plyglycol			g						quinoline	g	l	g	g	g	g	g		
potash lye	l	l	l	g	g	l	l	l	rape oil			g						
potassium acetate	g	g	g	g	g	g	g	g	rhodinol	g	l	g	g					
potassium bisulphate			l	g					sagrotan (TM)			g						
potassium biarbonate			l						salicylic acid	g	n		g	g	g			
potassium bromide	g	l	l	g	g	g	g	g	sea water	l	n	g	g	g	g	n	g	g
potassium carbonate	l	g	g	g	g				sliccofluorhydric acid	n	n	l	g	l	n	l	n	n
potassium chlorate	l	g	g	g	g		g	g	aliver bromide	n	g							
potassium chloride	n	l	l	g	g	g	g	l	silver nitrate		n	g	g	n	n		g	
potassium chrome sulphate	l	n	l	g	l	g	g	g	skydrol (TM)			g						
potassium cyanate			g						sodium	l	l	l	l	l	l	l	g	l
potassium cyanide	n	l	g	g	l	g	l	n	sodium acetate	l	l	g	g	g	g	g	g	g
potassium dichromate	g	l	g	g	g	g	g	g	sodium aluminate	g	l	g	g	g	g	g	g	g
potassium difluoride			g						sodium aluminium fluoride	g	g	g	g	g	g	g	g	n
potassium fluoride	g	g	g	g	g	g	g		sodium aluminium sulphate	n	l	g	l	l	g	g		
potassium hydrogen fluoride	l	l	g	g	g	g	g	n	sodium arseniate	g	g	g	g	g	g	g	g	g
potassium hydroxide	l	l	l	g	g	g	l	l	sodium benzoate	g	g	g	g	g	g	g	g	g
potassium hypochlorite	l	l	g	l	l		l	g	sodium bicarbonate	l	l	g	g	g	g	l	g	g
potassium iodate			l	g	g		g	g	sodium bisulfite	n	n	g	g	l	g		g	g
potassium iodide			l	g	g		g	g	sodium bisulphate	n	l	l	g	l	l	l	g	l
potassium monochromate	g	l	g	g	g	g	g	g	sodium borate	l	l	l	g	l	g	g	l	g
potassium nitrate	l	l	l	g	g	g	g	g	sodium boron hydride			g						
potassium nitrite	l	l	l	g	g	g	l	l	sodium bromate		l	g	g			g		
potassium oxalate			g						sodium bromide		l	l	g	g	g	g	g	g
potassium perchlorate	l	g	g	g	g		l	l	sodium bromite			g	g	g				
potassium permanganate	l	l	g	g	l	l	l		sodium carbonate	l	l	g	g	l	l	g	l	l
potassium peroxide	n	l	l	g	l	g	l	n	sodium chlorate	l	l	g	g	l	l	g	g	g

Key to Resistance Ratings :

g = good; l = limited; n = none; blank = no data currently available



# CHEMICAL COMPATIBILITY TABLES

Diaphragm Material:	Chemical:							Diaphragm Material:	Chemical:									
	Cu Alloy	Carbon Steel	St. st. I AISI 316	PTFE	Nickel 200	Monel 400	Hastelloy C276		Tantalum	Titanium	Cu Alloy	Carbon Steel	St. st. I AISI 316	PTFE	Nickel 200	Monel 400	Hastelloy C276	Tantalum
sodium chloride				g					tannin			g	g					
sodium chlorite	l	n	l	g					tar (pure)	l	n	g	g					
sodium chloro-acetate	l	l	g	g	g	g	g	g	tartaric acid	l	n	l	g	l	l			
sodium chromate	g	l	l	g	g	g	g	g	tetrachloroethane	l	l	l	g					
sodium citrate			g						tetrachloroethylene				g					
sodium cyanamide	l	l	g		g				tetrahydrofuran				g					
sodium cyanate	n	l	g	g	l			g	tetraline				g					
sodium cyanide			g	l	l	l	l	l	tin chloride	n	l	g	l	l	g	g	g	g
sodium dichromate			g						tin chloride solution				g					
sodium diphenyl sulfonate	l	g	g	g	g				tin (molten 300 °C)	n	n	g						
sodium dithionite	n	n	g	g	g	g	g	g	tin (molten 500 °C)	n	n	n						
sodium ethylate		g	g	g	g	g			titanium tetrachloride				g					
sodium fluoracetate	g	g	g	g	g	g			toluene	g	l	g	g	g	g			
sodium fluorophosphate	g	g	g	g					transformer oil				g					
sodium formiate	g	g	g	g	g	g	g	g	tributoxyethyl phosphate				g					
sodium glutamet	n	l	g	g	g	g	g		tributyl phosphate				g					
sodium hydrochloride	n	l	g	l	l	l	l	l	trichloroacetic acid			n	g					
sodium hydrogen sulphide	n	l	g	g	g	g	g	g	trichloroethane				g					
sodium hydroxide	n	l	g	l	l	l	l	l	trichloroethylene	l	l	g	g	g	g	g	l	l
sodium hypochlorite	n	l	l	g	l	l	g	g	trichloroethyl phosphate				g					
sodium iodide	l	l	l	g	l	g	g	g	tricresyl phosphate				g	g		g		
sodium nitrate	l	g	g	l	l	l	g	g	triethanolamine				g					
sodium perborate		g	g	g					triethyl glycol				g					
sodium perchlorate		g	g	g	g	l	l	l	trisodium phosphate			g						
sodium peroxide	n	g	l	g	g	g	n	n	turpentine	g	l	g	g	g	g			
sodium phosphate	l	g	g	l	l	l	g	g	uranium fluoride					g	g	l	n	
sodium / potassium alloys	l	l	l	g	g	l	g	g	urea	l	l	g	g	l	l	g	g	g
sodium pyrosulfite		g	g	g	g				urea resin	g	l	g	g	g	g	g		
sodium salicylate		g	g	g	g	g	g	g	uric acid		n	g	g	g	g	g	g	g
sodium silicate	l	g	g	g	g	g	g	g	urine			g						
sodium sulfite	n	g	g	g	g	g	g	g	varnish	g	l	g	g	g	g	g	g	g
sodium sulphate	l	g	g	l	l	l	g	l	vaseline			g						
sodium sulphide	l	l	l	g	l	l	l	g	vegetable									
sodium thiosulphate	l	g	g	g	g	g	g	g	vegetal tar / charcoal	g	l	g	g	g	g	g	g	g
soft soaps / suds	l	g	g	g					vinegar			g	g					
solder flux	l	l	l	g	g	l			vinyl acetate			g	g					
stannous chloride	n	n	l	g			g		vinyl chloride			g	l	l	l	g		
stearic acid	l	n	g	g	g	g			viscose			g						
succinic acid	g	l	g	g	g	g	g	g	water	l	n	g	g	g	g			
sugar beet juice			g						wine	l	n	g	g					
sugar solution	l	l	g	g	l				white lye			g						
sulfite lye	n	n	g	g	n	n	g	g	wood's alloy			g						
sulphur	l	l	g	g	l	l	l	g	xylamone			g						
sulphur (boiling)	l	l							xylene			g	g	l	l			
sulphur choride (dry)	g								xylene dimethyl formamide			g						
sulphur dioxide	l	l	g	g	l	g	l	g	yeast	l	l	g	g	g	g	g	g	g
sulphuric acid	n	n	l	g	l	l	l	g	zinc chloride	n	l	l	g	l	g	l	g	l
sulphuric anhydride	n	n	g						zinc (molten 300 °C)	n	n	g						
sulphurous acid	n	l	g	g					zinc (molten 500 °C)	n	n	n						
sulphurous chloride	l	g	g	g	g	g	g	n	zinc salt			g						
									zinc sulphate	n	n	g	g	l	l			

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Seals ~  
Diaphragm