



Uniting everyone, everything, everywhere.

RUBBER PROPERTIES

Find out everything you need to know about our rubbers

TABLE OF CONTENTS

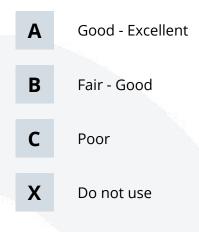
General Properties of Rubbers	(1)
Properties of the Rubber Compounds	Z
Chemical Resistance of the Rubber Compounds	5



GENERAL PROPERTIES OF RUBBERS

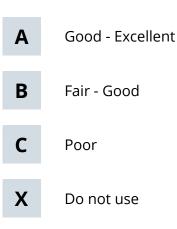
ASTM Designated	EPDM, EP, EPT, EPR	NBR	CR	VMQ, PMQ, PVMQ	FKM. FEPM
abreviation					
Chemical name	Ethylene Propylene	Acrylonnitrile	Polychloroprene	Sillicone	Fluorocarbon
		Butadiene			
Popular names	EPDM	Nitrile	Neoprene	Sillicone	Viton
Used on MPC mount-	"HC-ESA" Heavy	Upon request	Upon request	Upon request	Upon request
ing clamps	Duty Clamp -				
	European Standard				
	"HC-AS" Heavy Duty	Upon request	Upon request	Upon request	Upon request
	Clamp - American				
	Standard				
	"LC" Light Duty	Upon request	Upon request	Upon request	Upon request
	Clamp				
	"SB" Support	Upon request	Upon request Upon request		Upon request
	Brackets				
	"DL" Pipe Mounting	Upon request	Upon request	Upon request	Upon request
	strengthened				
	"SL" Pipe Mounting	Upon request	Upon request	Upon request	Upon request
	firm M6				
Used on "U-connect"	All U-connect	All U-connect	-	Upon request	Upon request
couplings	couplings	couplings			

PROPERTIES OF THE RUBBER COMPOUNDS





	EPDM	NBR	CR		FKM
	EPDINI	NDR	CR	VMQ-PVMQ	FRIVI
General temperature range in Celcius	-55 - 130	-35 - 110	-45 - 120	-55 - 230	-20 - 326
General temperature range in Fahrenheit	-67 - 266	-30 - 230	-49 - 248	-67 - 446	-40 - 410
Specific temperature range for "U-connect"-	-30 - 110	-20 - 80	-	-40 - 220	-18 - 300
couplings in Celcius					
Specific temperature range for "U-connect"-	-22 - 230	-4 - 176	-	-40 - 428	-0.4 - 572
couplings in Fahrenheit					
Hardness "Shore A" (+5 / -5)	60	60	60	60	60
Heat aging at 100 °C (212 °F)	А	В	А	А	А
Steam resistance	А	А	В	В	С
Weather resistance	А	В	В	А	А
Sunlight resistance	А	В	В	А	А
Ozone resistance	А	В	В	А	А
Water resistance	А	А	В	А	А
Vibration dampening	В	В	А	В	В
Abrasion resistance	В	А	А	С	В





					VMQ-	
Contact fluid	Туре	EPDM	NBR	CR	PVMQ	FKM
10% Hydrated ammonium	Inorganic base	А	AB	А	А	В
10% Hypochlorite sodium	Inorganic salt	AB	BC	В	В	А
(aqueous solution)						
25% Oxalic acid at 80 °C	Organic acid	А	BC	В	BC	А
(176 °F)						
50% Fluoridic acid	Inorganic acid	А	CX	С	Х	А
65% Concentrated nitric acid	Inorganic acid	CX	Х	Х	Х	В
65% Fluoridric acid at 60 °C	Inorganic acid	Х	Х	Х	Х	В
(140 °F)						
75% Fluoridic acid	Inorganic acid	BC	Х	CX	Х	В
90% Oxygen water	Inorganic peroxide	BC	CX	CX	AB	В
•						
Α						
Acetaldehyde	Aldehyde	А	Х	CX	AB	Х
Acetamide 100 °C (212 °F)	Amide	А	В	В	BC	А
Acetate lead (aqueous	Organic salt	A	В	В	Х	-
solution)						
Acetic acid at 25% at 100 °C	Organic acid	Х	Х	Х	BC	Х
(212 °F)						
Acetic anhydride	Organic anhydride	В	С	AB	C	Х
Acetone	Ketone	A	Х	BC	В	Х
Acetophenone	Ketone	A	Х	Х	CX	Х

					VMQ-	
Contact fluid	Туре	EPDM	NBR	CR	PVMQ	FKM
Acetylene	Hydrocarbon	А	AB	В	BC	А
Acrylonitrile at 50 °C (122 °F)	Nitrile	С	Х	BC	СХ	Х
Adipic acid	Organic acid	А	А	А	-	А
Alum	Inorganic salt	А	А	А	AB	-
Aluminum sulphate	Inorganic salt	А	А	А	А	А
Amile acetate	Ester	В	Х	Х	Х	Х
Amile borato	Ester	Х	А	А	-	А
Ammonia gassosa	Inorganic base	А	А	А	А	Х
Ammonium carbonate at 80 °C	Inorganic salt	А	СХ	AB	BC	-
sol. Watery						
Ammonium chloride	Inorganic salt	А	А	А	А	А
(aqueous solution)						
Ammonium nitrate	Inorganic salt	А	AB	AB	А	А
(aqueous solution)						
Ammonium nitrite	Inorganic salt	А	А	А	В	-
(aqueous solution)						
Ammonium persulphate	Inorganic salt	А	-	А	А	-
(aqueous solution)						
Ammonium sulphate	Inorganic salt	А	А	А	А	-
(aqueous solution)						
Amylic alcohol at 50 °C (122 °F)	Alcohol	А	В	А	BC	AB
Anhydro fluoridic acid	Inorganic acid	С	Х	С	Х	С
Anhydrous bromo	Inorganic compound	Х	Х	Х	Х	А
Aniline	Aromatic organic base	AB	Х	С	А	AB
Aniline at 100 °C (212 °F)	Aromatic organic base	В	Х	Х	AB	С
Aqua regia	Inorganic acid	С	Х	CX	СХ	В
Arsenico tricloruro	Inorganic salt	С	А	А	-	-
Astm oil n. 1 At 100 °C (212 °F)	Mineral oil	Х	А	А	AB	А
Astm oil n. 2 At 100 °C (212 °F)	Mineral oil	Х	А	В	В	А
Astm oil n. 3 At 100 °C (212 °F)	Mineral oil	Х	А	CX	С	А
В						
Bakery gas	Gas	С	BC	С	А	А
Barium hydrate (saturated	Inorganic base	А	А	А	А	А
aqueous solution)						
Barium sulphate	Inorganic salt	А	А	А	А	А
Beer	Alcoholic food	А	А	А	А	А
Benzene	Aromatic hydrocarbon	Х	СХ	Х	Х	AB

A Good - Excellent

B Fair - Good

C Poor

X Do not use

							VMQ-	
Contact fluid	Туре	EPDM		NBR	CR		PVMQ	FKM
Benzile chloride	Chlorinated aromatic	Х		Х	Х		С	А
	hydrocarbon							
Benzoic acid	Organic acid	С		С	Х		С	А
Benzoic aldehyde	Aldehyde	А		Х	Х		-	CX
Benzoic aldehyde at 100 °C	Aldehyde	А		Х	Х		-	Х
(212 °F)								
Benzol	Aromatic hydrocarbon	Х		CX	Х		Х	AB
Benzyl alcohol	Alcohol	А		Х	BC		AB	А
Bitumen	Hydrocarbon	Х		В	С		BC	А
Borace (aqueous solution)	Inorganic salt	А		В	AB		В	А
Boric acid at 10% at 100 °C	Inorganic acid	А		А	А		В	А
(212 °F)								
Butadiene	Hydrocarbon	С		Х	CX		Х	AB
Butanone	Ketone	А		Х	С		CX	Х
Butyl acetate	Ester	BC		Х	Х		Х	Х
Butyl acetyl ricinoleate	Ester	А		-	-		-	-
Butyl alcohol at 100 °C (212 °F)	Alcohol	-		А	С		Х	В
Butyl alcohol at 50 °C (122 °F)	Alcohol	AB		А	А		В	А
Butyl benzoate	Ester	А		Х	Х		-	А
Butyl carbitol	Alcohol	А		А	BC		-	А
Butyl cellosolve	Alcohol	А		С	BC		-	Х
Butyl lactate	Ester	-		В	-		-	-
Butyl oiled	Ester	BC		BC	х		-	А
Butyl phthalate	Ester	AB		Х	Х		В	BC
Butyl stearate at 70 °C (158 °F)	Ester	С		В	Х		AB	А
Butyric acid	Organic acid	BC		BC	С		-	BC
С								
Calcium hydrate	Inorganic base	А		AB	А		BC	А
(aqueous suspension)								
Carbitol	Alcohol	AB		BC	BC		В	В
Carbon dioxide	Inorganic anhydride	AB		AB	AB		AB	А
Carbon sulphide	Carbon sulphide	х		С	Х		Х	А
Carbon tetrachloride	Chlorinated hydrocarbon	х		С	Х		Х	А
Carbonic acid	Inorganic acid	А		В	А		А	А
Castor oil	Oils	А		В	С		А	А
Cellosolve	Alcohol	В		-	-		-	С
Cellosolve acetate	Ester	В		х	х		х	х
A Good	- Excellent B Fair - Go	ood	С	Poor	X Do no	t us	e	
				-				

							VMQ-	
Contact fluid	Туре	EPDM		NBR	CR		PVMQ	FKM
Chloride iron	Inorganic salt	А		А	А		AB	А
(aqueous solution)								
Chloroacetic acid 25%	Organic acid	AB		CX	С		Х	Х
Chloroacetone	Ketone	А		Х	BC		С	Х
Chlorobenzene	Chlorinated aromatic	Х		Х	Х		Х	А
	hydrocarbon							
Chloroform	Chlorinated hydrocarbon	Х		Х	Х		CX	А
Chrome plating baths	Inorganic salts	В		Х	Х		В	А
Chromic acid at 50% at 50 °C	Inorganic acid	BC		Х	Х		Х	А
(122 °F)								
Citric acid 33%	Organic acid	А		AB	А		А	А
Clorobromometano	Chlorinated hydrocarbon	BC		Х	Х		Х	А
Clorobutadiene	Chlorinated hydrocarbon	Х		Х	Х		Х	А
Clorodifenile	Chlorinated aromatic	Х		Х	Х		В	А
	hydrocarbon							
Cockery gas	Gas	С		С	С		AB	А
Coconut oil	Oils	BC		А	В		А	А
Cold hydrogen sulfur	Inorganic acid	А		Х	А		С	Х
(aqueous solution)								
Cold oxygen	Gas	А		В	А		А	А
Concentrated hydrate	Inorganic base	А		В	А		А	В
ammonium								
Copper sulphate	Inorganic salt	А		А	А		А	А
(aqueous solution)								
Cotton oil	Oils	В		А	BC		BC	А
Creosote	Phenol	Х		AB	BC		Х	А
Cresol	Phenol	BC		CX	С		-	AB
Crotonaldehyde	Aldehyde	А		А	А		Х	А
Cyanidric acid at 20%	Inorganic acid	А		С	С		BC	А
Cyclohexane	Hydrocarbon	Х		А	CX		Х	А
Cyclohexanone	Ketone	В		Х	Х		С	Х
-								
D								
Decalin	Hydrocarbon	Х		BC	Х		CX	А
Diacetone	Ketone	А		Х	AB		AB	Х
Dibenzyl ether	Aromatic ether	В		Х	CX		В	A -
Dicloroisopropiletere	Ether	С		Х	Х		Х	C
Diesel	Hydrocarbon	Х		A	BC		Х	А
A Good	- Excellent B Fair - Go	ood	C	Poor	X Do no	it us	se	

					VMQ-	
Contact fluid	Туре	EPDM	NBR	CR	PVMQ	FKM
Diethanolamine	Organic base	А	BC	-	-	-
Diethylamine	Organic base	С	BC	BC	BC	Х
Diethylene glycol	Alcohol	А	А	А	AB	А
Diisobutylene	Hydrocarbon	Х	В	CX	Х	А
Diisopropilchetone	Ketone	AB	Х	Х	Х	Х
Diisopropylbenzene	Aromatic hydrocarbon	Х	Х	Х	В	А
Dimethylamine	Organic base	В	Х	Х	Х	Х
Dimethylaniline	Aromatic organic base	В	Х	CX	-	Х
Dimethylformamide	Amide	В	BC	С	AB	Х
Dioctyl	Aromatic ester	В	С	Х	BC	А
Diottilsebacato	Ester	В	Х	Х	С	А
Dioxane	Ether	В	Х	Х	-	Х
Diphenyl	Aromatic hydrocarbon	Х	CX	Х	С	А
Diphenyl oxide	Aromatic ether	Х	Х	Х	BC	А
Distilled water at 100 °C (212 °F) Water	А	AB	В	AB	AB
Dowtherm	Aromatic ether	Х	Х	Х	BC	А
Dry chlorine	Inorganic compound	СХ	С	С	Х	AB
E						
Epichlorhydrin	Chlorinated hydrocarbon	В	Х	Х	Х	Х
Esaldeide	Aldehyde	А	Х	А	В	СХ
Ethane	Hydrocarbon	Х	А	В	Х	А
Ethanolamine	Organic base	А	А	В	В	Х
Ethyl acetate	Ester	А	Х	С	А	Х
Ethyl acetoacetate	Ester	В	Х	С	В	Х
Ethyl alcohol at 50 °C (122 °F)	Alcohol	А	А	А	А	В
Ethyl benzoate	Ester	В	Х	Х	Х	А
Ethyl chloride	Chlorinated hydrocarbon	В	В	BC	Х	А
Ethyl ether	Ether	С	BC	Х	Х	Х
Ethyl lactate	Ester	-	В	-	-	-
Ethyl mercaptan	Mercaptan	СХ	Х	CX	С	В
Ethyl silicate	Ester of silicic acid	А	А	А	А	А
Ethylcellosolve	Alcohol	В	Х	Х	Х	Х
Ethylene	Hydrocarbon	Х	А	BC	-	А
Ethylene chloride	Chlorinated hydrocarbon	С	СХ	Х	CX	В
Ethylene glycol	Alcohol	А	А	А	А	А
Ethylene oxide at -20 °C (68 °F)	Hydrocarbon	BC	Х	Х	С	Х
Ethylenediamine	Organic base	AB	AB	AB	С	Х

C Poor

X Do not use

B Fair - Good

A Good - Excellent

Contact fluid	Туре	EPDM		NBR		CR	v	MQ-PVMQ		FKM	
Ethylenglycol at 100 °C (212 °F)	Alcohol	А		А		В		A		A	
F											
Fluid A (isoctane)	Hydrocarbon	Х		А		AB		Х		A	
Fluid B	Aromatic hydrocarbon	Х		AB		С		Х		А	
(70% isoctane - 30% toluene)											
Fluid C	Aromatic hydrocarbon	Х		В		Х		Х		А	
(50% isoctane - 50% toluene)											
Fluorobenzene	Fluorinated aromatic	Х		Х		Х		Х		А	
	hydrocarbon										
Fluorosilicic acid	Inorganic acid	В		В		В		Х		В	
Formaldehyde at 40% at 20 °C											
(68 °F)	Aldehyde	А		BC		AB		AB		А	
Formaldehyde at 40% at 70 °C											
(158 °F)	Aldehyde	-		Х		-		-		-	
Formic acid at 23 °C (73 °F)											
(saturated solution)	Organic acid	В		В		В		В		C	
Formic acid at 75 °C (167 °F)											
(saturated sol)	Organic acid	В		С		С		Х		Х	
Freon 11	Freon	Х		AB		В		Х		C	
Freon 112	Freon	Х		В		BC		Х		А	
Freon 113	Freon	CX		А		А		Х		В	
Freon 114	Freon	А		А		А		Х		В	
Freon 114 / B2	Freon	Х		В		А		-		В	
Freon 115	Freon	А		А		А		С		В	
Freon 12	Freon	В		А		А		Х		В	
Freon 13	Freon	А		А		А		Х		AB	
Freon 142 / B	Freon	AB		А		А		Х		Х	
Freon 152 / A	Freon	А		А		А		-		Х	
Freon 21	Freon	Х		Х		BC		Х		Х	
Freon 218	Freon	А		А		А		-		А	
Freon 22	Freon	А		CX		A		Х		Х	
Freon 31	Freon	А		Х		AB		Х		Х	
Freon 32	Freon	A		A		A		C		CX	
Freon 502	Freon	А		В		А		C		В	
Freon BF	Freon	Х		В		BC		Х		A	
Freon C 316 and C / 318	Freon	A		A		A		Х		AB	
Freon MF	Freon	Х		А		С		Х		В	
A Good	AGood - ExcellentBFair - GoodCPoorXDo not use										

							VMQ-	
Contact fluid	Туре	EPDM		NBR	CR		PVMQ	FKM
Freon T-WD-602	Freon	В		В	В		х	Х
Freon TA	Freon	AB		А	AB		-	С
Freon TC	Freon	В		А	А		-	А
Freon TF	Freon	Х		А	А		Х	AB
Freon TMC	Freon	BC		В	BC		С	А
Freon TP 35	Freon	А		А	А		А	А
Furfural	Alcohol	В		Х	С		СХ	Х
G								
Gallic acid	Organic acid	В		С	BC		А	А
Gasohol (toluene 50% -	Aromatic hydrocarbon	Х		С	Х		-	-
isoctane 30% - methanol 20%)	and alcohol							
Glacial acetic acid	Organic acid	А		С	С		BC	Х
Glucose	Alcohol	А		А	А		А	А
Glue	Organic compound	А		А	А		А	А
Glycerine	Alcohol	А		А	А		А	А
н								
Helium	Gas	A		A	А		А	А
Hexane	Hydrocarbon	CX		А	В		Х	А
Hexanol	Alcohol	С		A	В		BC	А
Hexene	Hydrocarbon	Х		В	В		Х	А
Hot gas ammonia	Inorganic base	В		CX	AB		А	Х
Hot hydrogen sulfur	Inorganic acid	A		Х	BC		C	Х
(aqueous solution)								
Hybrid acid 40%	Inorganic acid	A		CX	В		Х	А
Hydrazine	Hydrazine	A		В	В		C	Х
Hydrochloric acid 10%	Inorganic acid	A		В	AB		C	A
Hydrochloric acid at 37%	Inorganic acid	A		В	BC		CX	A
Hydrochloric acid at 37% at	Inorganic acid	BC		Х	Х		Х	AB
70 °C (158 °F)								
Hydrogen	Gas	А		A	A		BC	A
Hydroquinone	Phenol	В		С	Х		-	Х
Hypochlorite calcium	Inorganic salt	А		С	С		В	A
(aqueous solution)								
Hypochlorite sodium at 10%	Inorganic salt	-			-			Х
at 100 °C (212 °F) (aqueous								
solution)	- Excellent B Fair - Go	bod	C	Poor	X Do no	ot us	se	
A Good		.54		1 001	A DO HO	- us		

					VMQ-	
Contact fluid	Туре	EPDM	NBR	CR	PVMQ	FKM
lodine pentafluoride	Inorganic compound	Х	Х	Х	Х	Х
lodoformio	Hydrocarbon	A	-	-	-	- 23
Isobutyl alcohol	Alcohol	A	В	A	A	A
Isopropyl alcohol	Alcohol	A	В	A	AB	A
Isopropylic ether	Ether	CX	В	BC	Х	Х
1						
J						
lolly.	Food	А	А	А	A	٨
Jelly Jp - 4	Hydrocarbon	X	A	BC	X	A A
Jb - 4	Hydrocarboli	^	A	DC	^	A
14						
К						
Kerosene	Hydrocarbon	х	А	BC	х	A
		~		DC	~	
L						
Lactic acid	Organic acid	AB	BC	BC	А	А
Lardo at 70 °C (158 °F)	Food	С	А	В	BC	А
Lead free petrol	Hydrocarbon	Х	AB	С	Х	А
Ligroine	Hydrocarbon	Х	А	В	Х	А
Linseed oil	Oils	А	А	В	В	А
Liquid ammonia	Inorganic base	А	AB	AB	CX	Х
Liquid butane	Hydrocarbon	Х	А	AB	Х	А
Liquid fluorine	Inorganic compound	CX	Х	Х	Х	В
Liquid propane	Hydrocarbon	Х	А	В	С	А
Lithium bromide	Inorganic salt	А	А	А	А	А
(aqueous solution)						
Μ						
			_			
Magnesium hydrate	Inorganic base	A	В	A	A	A
(aqueous suspension)	looveooislt	٨	٨	٨	٨	٨
Magnesium sulphate	Inorganic salt	A	A	A	A	A
(aqueous solution) Maleic acid	Organic acid	BC	C	C	v	٨
	Organic acid	BC	С	C	Х	A
A	Good - Excellent B Fair - C	iood	C Poor	X Do no	t use	

					VMQ-	
Contact fluid	Туре	EPDM	NBR	CR	PVMQ	FKM
Maleic anhydride	Organic anhydride	С	Х	С	-	-
Malic acid	Organic acid	-	А	BC	В	А
MEK, methylisobutyl ketone	Ketone	В	Х	Х	CX	Х
Menthol	Alcohol	А	А	А	Х	А
Mercury	Mercury and derivatives	А	А	А	А	А
Mesitile oxide	Ketone	BC	Х	Х	Х	Х
Methane	Hydrocarbon	CX	А	BC	Х	А
Methyl acrylate	Ester	В	Х	С	Х	Х
Methyl alcohol at 50 °C (122 °F)	Alcohol	А	А	А	А	CX
Methyl bromide	Bromurated	Х	BC	Х	Х	А
	hydrocarbon					
Methyl chloride	Chlorinated hydrocarbon	С	Х	Х	Х	AB
Methyl methacrylate	Ester	BC	Х	CX	С	Х
Methyl salicylate	Ester	В	Х	Х	-	-
Methylcyclopentane	Hydrocarbon	Х	-	CX	Х	AB
Methylene chloride	Chlorinated hydrocarbon	С	Х	Х	Х	В
Milk	Food	А	А	А	А	А
Mineral oil	Mineral oil	Х	А	В	В	А
Molasses	Food	А	А	А	А	А
Mono-di-tri-basic ammonium	Inorganic salt	А	А	А	AB	А
phosphate (aqueous solution)						
Monochlorobenzene	Chlorinated aromatic	Х	Х	Х	CX	AB
	hydrocarbon					
Monoethanolamine	Organic base	А	Х	Х	В	Х
Monometilanilina	Aromatic organic base	AB	Х	Х	-	В
Monovinyl acetylene at -20 °C	Hydrocarbon	AB	А	В	BC	А
(68 °F)						
Ν						
Naphtha	Hydrocarbon	Х	AB	С	X	А
Naphthaline at 80 °C (176 °F)	Aromatic hydrocarbon	Х	CX	Х	Х	А
Naphthenic acid	Organic acid	Х	В	Х	-	А
Natural gas	Gas	Х	А	А	BC	А
Nitric acid diluted at 10% at	Inorganic acid	А	В	С	Х	BC
50 °C (122 °F)						
Nitrobenzene at 50 °C (122 °F)	Aromatic nitroderivate	А	Х	Х	А	BC
Nitroethane	Nitroderivative	В	Х	С	Х	Х
Nitromethane	Nitroderivative	В	X	С	X	Х
A Cood	Evcollopt D Fair Ca	ad	Deer	V Do re		

B Fair - Good

C Poor

X Do not use

A Good - Excellent

						VMQ-	
Contact fluid	Туре	EPDM	NBR	CR		PVMQ	FKM
0							
0							
Octile adipate	Ester	В	Х	Х		C	AB
Octyl alcohol	Alcohol	BC	В	A		В	A
Oil at 150 °C (302 °F)	Hydrocarbon	Х	BC	С		Х	AB
Oil methyl	Ester	В	Х	Х		-	AB
Oil of ox feet	Oils	В	А	Х		В	А
Oleic acid	Organic acid	BC	BC	BC		BC	-
Oleum	Inorganic acid	В	BC	С		CX	AB
Olive oil	Oils	С	A	В		А	А
Orthodichlorobenzene	Chlorinated aromatic	Х	CX	Х		С	AB
	hydrocarbon						
Oxygen at 100 - 200 °C	Gas	С	Х	Х		В	В
(212 - 392 °F)							
Ozone (50pphm) at 40 °C	Gas	А	Х	BC		А	А
(104 °F)							
Р							
Palmitic acid	Organic acid	В	А	В		CX	А
Paradichlorobenzene	Chlorinated aromatic	Х	-	Х		С	AB
	hydrocarbon						
Paraffin	Hydrocarbon	С	А	AB		-	А
Peanut oil	Oils	BC	А	BC		А	А
Perchlorethylene	Chlorinated hydrocarbon	Х	BC	Х		CX	А
Petrol 50% / Benzol 30% /	Aromatic hydrocarbon	Х	С	СХ		Х	В
Ethanol 20%	Hydrocarbon	Х	A	В		BC	А
Petroleum)					-	
Phenol	Phenol	AB	х	СХ		AB	А
Phenol at 100 °C (212 °F)	Phenol	В	X	X		В	В
Phenylhydrazine	Hydrazine	B	X	СХ		X	A
Phosphoric acid 20%	Inorganic acid	A	В	В		BC	A
Phosphoric acid 85%	Inorganic acid	A	CX	AB		C	A
Phosphoric acid at 60% at	Inorganic acid	A	C	В		-	A
50 °C (122 °F)	norganic aciu	~	C	D		1	A
Picric acid at 10% at 100 °C	Organic acid	AB	В	AB		Х	٨
	Organic aciu	AD	D	AD		~	A
(212 °F)	Oile	V		V		V	٨
Pine oil	Oils	Х	В	Х		Х	A
A Good	bod	C Poor	X Do no	ot use	9		

					VMQ-					
Contact fluid	Туре	EPDM	NBR	CR	PVMQ	FKM				
Pinene	Hydrocarbon	х	AB	С	Х	A				
Piperidine	Organic base	X	Х	Х	Х	Х				
Polyvinyl acetate (emulsion)	Ester	A	-	В	-	-				
Potassium acetate	Organic salt	A	В	В	Х	Х				
(aqueous solution)										
Potassium chloride	Inorganic salt	A	A	A	A	А				
(aqueous solution)										
Potassium hydrate at	Inorganic base	A	BC	В	С	Х				
70 °C (158 °F) (medium-high										
concentration)										
Potassium nitrate	Inorganic salt	A	A	A	А	А				
(aqueous solution)										
Potassium permanganate at	Inorganic salt	C	Х	В	А	CX				
25% at 80 °C (176 °F)										
(water sol.)										
Potassium sulphate	Inorganic salt	А	А	A	А	А				
(aqueous solution)										
Propilnitrato	Nitroderivative	В	Х	Х	CX	Х				
Propyl	Ester	В	Х	Х	CX	Х				
Propylene	Hydrocarbon	Х	С	Х	Х	А				
Propylene oxide	Hydrocarbon	В	Х	Х	Х	Х				
Pydraul 10E, 29ELT	Fluid	А	Х	Х	Х	А				
Pydraul 115E	Fluid	A	Х	X	Х	А				
Pydraul 230E, 312C, 540C	Fluid	Х	Х	X	Х	А				
Pydraul 30E, 50E, 65E, 90E	Fluid	А	Х	Х	А	А				
Pydraul F9 at 80 °C (176 °F)	Fluid	В	Х	Х	А	А				
Pyridine	Organic base	В	Х	Х	Х	Х				
Pyrolegnous acid	Organic acid	В	Х	В	-	-				
-										
R										
Ragia water	Hydrocarbon	х	А	Х	CX	А				
Repent	Hydrocarbon	CX	А	В	Х	А				
C										
S										
Sea water	Water	A	A	A	A	A				
Siliconic oil	Oils	A	A	A	C	A				
Skydrol 500	Fluid	A	Х	Х	AB	Х				
A Good	- Excellent B Fai	ir - Good	C Poor	X Do not use						

					VMQ-	
Contact fluid	Туре	EPDM	NBR	CR	PVMQ	FKM
Skydrol 7000	Fluid	А	Х	Х	А	Х
Smoking nitric acid	Inorganic acid	Х	Х	Х	Х	СХ
Soaps (solutions OF)	Soap	А	А	В	А	А
Sodium bisulphite	Inorganic salt	А	А	А	А	А
(aqueous solution)						
Sodium carbonate at 20%	Inorganic salt	А	А	А	А	А
(aqueous solution)						
Sodium chloride	Inorganic salt	А	А	А	А	А
(aqueous solution)						
Sodium hydrate at 70 °C	Inorganic base	А	BC	AB	BC	С
(158 °F) (medium-high						
concentration)						
Sodium metaphosphate	Inorganic salt	А	А	BC	-	А
(aqueous solution)						
Sodium peroxide	Inorganic peroxide	А	В	В	Х	А
Sodium phosphate mono-di-	Inorganic salt	А	А	AB	Х	А
tri-basico (water sol.)						
Sodium silicate	Inorganic salt	А	А	А	-	А
(aqueous solution)						
Sodium sulphate	Inorganic salt	А	А	А	А	А
(aqueous solution)						
Sodium thyo sulphate	Inroganic salt	А	В	А	А	А
(aqueous solution)						
Soja oil	Oils	С	А	BC	А	А
Stearic acid	Organic acid	В	В	В	А	AB
Stearic acid at 70 °C (158 °F)	Organic acid	В	В	В	А	-
Stearina at 70 °C (158 °F)	Organic acid	В	В	В	AB	А
Styrene	Aromatic hydrocarbon	Х	Х	Х	С	В
Sulfate iron (aqueous solution)	Inorganic salt	А	А	А	AB	А
Sulfur dioxide	Inorganic anhydride	В	Х	Х	В	А
Sulfur dioxide	Inorganic anhydride	А	CX	С	BC	А
Sulfur exafluoride	Inorganic compound	А	AB	A	AB	А
Sulfuric acid	Inorganic acid	AB	В	В	CX	-
Sulfuric acid 50%	Inorganic acid	А	CX	С	Х	А
Sulfuric acid concentr. 96%	Inorganic acid	С	Х	Х	Х	В
warm						
Sulfuric acid diluted at 20%	Inorganic acid	А	В	AB	Х	А
Super petrol	Hydrocarbon	Х	В	CX	Х	А

C Poor

X Do not use

Contact fluid	Туре	EPDM		NBR	CR		VMQ- PVMQ	FKM
-								
Т								
		_		_				.
Tannic acid	Organic acid	C		C	AB		В	§Α
Tannin	Phenol	A		A	AB		AB	A
Tar	Hydrocarbon	Х		В	C		BC	A
Tartaric acid 20%	Organic acid	В		A	В		А	A
Terpineol	Alcohol	C		AB	Х		-	A
Tetrabromoethane	Bromurated	Х		Х	Х		Х	A
	hydrocarbon							
Tetrabuty titanate	Titanium compound	А		AB	AB		-	А
Tetrachloroethane	Chlorinated hydrocarbon	Х		Х	Х		Х	AB
Tetraetile lead	Lead compound	Х		В	BC		С	А
Tetrahydrofuran	Ether	C		Х	Х		Х	Х
Tetraline	Hydrocarbon	Х		CX	Х		С	А
Thionyl chloride	Organic compound	С		Х	Х		Х	В
Titanium tetracloruro	Titanium compound	Х		С	Х		Х	А
Toluene	Aromatic hydrocarbon	Х		CX	Х		Х	AB
Transformer oil	Oils	Х		А	В		В	А
Triacetin	Ester	А		В	В		-	Х
Tributilmercaptano	Mercaptan	Х		Х	Х		Х	А
Tributossietilfosfato	Ester of phosphoric acid	AB		Х	Х		-	А
Tributyl	Ester	А		Х	Х		-	Х
Trichlorethylene	Chlorinated hydrocarbon	Х		Х	Х		Х	AB
Trichloride phosphorus	Inorganic compound	А		CX	Х		С	А
Trichloroacetic acid	Organic acid	В		В	С		-	С
Tricresyl phosphate	Ester of phosphoric acid	А		Х	CX		В	А
Triethanolammine	Organic base	AB		BC	AB		-	Х
Triethylamine	Organic base	CX		AB	С		CX	В
Trinitrotoluol	Nitroderivative	Х		Х	В		- 1	В
Trioctyl	Ester of phosphoric acid	А		Х	Х		С	В
Turpentine essence	Hydrocarbon	Х		А	х		Х	А
U								
Urea (aqueous solution)	Urea	А		А	А		A	A
A Go	od - Excellent B Fair - Go	bod	C	Poor	X Do no	ot us	se	

C Poor

						VMQ-	
Contact fluid	Туре	EPDM		NBR	CR	PVMQ	FKM
V							
\/:	Oursenis said			DC			c
Vinegar	Organic acid	A		BC	B	A	C
Vinyl acetate Vinyl chloride	Ester Chlorinated hydrocarbon	A C		A X	A X	- X	A A
Vinylidene chloride	Chlorinated hydrocarbon	X		A BC	^ CX	X	B
viriyildene chionde	Chiomated Hydrocarbon	Λ		DC		^	В
W							
Water	Water	А		А	А	А	А
Water vapor above 150 °C	Vapor	В		Х	Х	Х	СХ
(302 °F)							
Water vapor at 125 °C - 150 °C	Vapor	AB		С	Х	Х	BC
(257 °F - 302 °F)							
Water vapor up to 125 °C	Vapor	А		В	BC	В	AB
(257 °F)							
Wet chlorine	Inorganic compound	С		С	С	Х	AB
Wine	Alcoholic food	А		А	А	А	А
X							
Xylene	Aromatic hydrocarbon	X		CX	X	X	A
Xylidine	Aromatic organic base	С		BC	CX	Х	Х
7							
Z							
Zinc acetate (aqueous solution)	Inorganic salt	А		В	В	Х	Х
Zinc chloride	Inorganic salt	A		A	A	A	A
(aqueous solution)		~				7.	,,
Zinc sulphate	Inorganic salt	А		А	А	А	А
(aqueous solution)	0						
_			_				

MPC Clamps, Inc.

3130 N Fry Rd Suite 500 Katy, TX 77449



C +1 (346) 201 4694

