

# РУКАВА ДЛЯ ХИМИКАЛИЙ

## ПЕРЕЧЕНЬ УСТОЙЧИВОСТИ

Химический продукт			Группы пригодности внутреннего слоя							
			Шланга материал внутреннего слоя **]							
Обозначение рабочего тела	CAS-№	Конс*	NBR2	EPDM	CIIR	CSM	PEX	UPE	UPE	FEP
			Цвет обозначения шлангов							
			синий	фиол.	фиол.	зелен	синий	синий	фиол.	красн, фиол.
							белый	белый	белый	белый
			Semperit - маркировка шлангов							
			NBR2	EPDM	CIIR	CSM	XLPE	UPEL-P	UPE-P	FEP
Резист			M	E	B	C	X	U	U	P
Acetaldehyde	75070		C	A	A	C	A	A	A	A
Acetamide	60355		C	A	A	A	A	A	A	A
Acetic acid	64197	10 %	C	A	A	A	A	A	A	A
Acetic acid	64197	60 %	-	A	A	A	A	A	A	A
Acetic acid	64197	100 %	C	A	A	A	A	A	A	A
Acetic acid butyl ester see Butyl acetate										
Acetic acid methyl ester see Methyl acetate										
Acetic acid propyl ester	109604		C	A	A	C	A	A	A	A
Acetic acid see Ethyl acetate										
Acetic acid vinyl ester see Vinyl acetate										
Acetic acid-2-methoxy ethyl ester	110496		C	A	A	B	A	A	A	A
Acetic anhydride	108247		C	A	A	A	A	A	A	A
Acetic ethyl ester see Ethyl acetate										
Acetoacetic acid ethyl ester	141979		C	B	B	C	A	A	A	A
Acetoacetic acid methyl ester	105453		C	B	B	C	A	A	A	A
Acetone	67641		C	A	A	B	A	A	A	A
Acetonitrile	75058		-	B	B	B	A	A	A	A
Acetophenone	98862		C	A	A	-	A	A	A	A
Acetyl acetone	123546		C	A	A	C	A	A	A	A
Acetyl chloride	75365		C	-	-	C	A	A	A	A
Acetylene tetrachloride see Tetrachlorethane										
Acroleine	107028		-	A	A	C	A	A	A	A
Acrylic acid	79107		C	A	A	A	-	-	-	-
Acrylic acid ethyl ester see Ethyl acrylate										
Acrylic acid methyl ester	96333		-	-	-	C	A	A	A	A
Acrylonitrile	107131		B	A	A	C	A	A	A	A
Adipic acid	124049		A	A	A	A	A	A	A	A
Adipic diethyl ester	141286		-	A	A	C	A	A	A	A
Alkyl benzene			-	C	C	C	A	A	A	A
Allyl alcohol	107186		A	A	A	A	A	A	A	A
Alpha methyl styrene see Methyl styrene-alpha										
Alum, aqueous			B	A	A	A	A	A	A	A
Aluminium acetate, aqueous	139128		A	A	A	A	A	A	A	A
Aluminium bromide, aqueous	7727153		-	A	A	A	A	A	A	A
Aluminium chlorate, aqueous	15 477335		-	A	A	A	A	A	A	A
Aluminium chloride, aqueous	7784136		B	A	A	A	A	A	A	A
Aluminium nitrate, aqueous	13 473900		-	A	A	A	A	A	A	A
Aluminium oxide, aqueous	1344281		A	A	A	A	A	A	A	A
Aluminium phosphate, aqueous	7784307		-	A	A	A	A	A	A	A
Aluminium sulfate, aqueous	10 043013		-	A	A	A	A	A	A	A
Aluminium sulfide	1302814		-	A	A	A	A	A	A	A
Amines, aromatic			C	C	C	C	A	A	A	A
Aminopropanol-2	78966		B	A	A	C	A	A	A	A
Ammonium chloride, aqueous	12 125029		-	A	A	A	A	A	A	A
Ammonia water see Ammonium hydroxide, solution of										
Ammonia, gaseous	7664417		-	-	-	-	-	-	-	-
Ammonia, gaseous	7664417		B	A	A	B	A	A	A	A
Ammonium acetate, aqueous	631618		-	A	A	A	A	A	A	A
Ammonium bromide, aqueous	12 124979		-	A	A	A	A	A	A	A
Ammonium diphosphate, aqueous	13 765350		-	A	A	A	A	A	A	A
Ammonium hydroxide, solution of	1336216		-	A	A	A	A	A	A	A
Ammonium nitrate, aqueous	6484522		-	A	A	A	A	A	A	A
Ammonium persulfate, aqueous	7727540		-	A	A	A	A	A	A	A
Ammonium phosphate, aqueous	10 361656		-	A	A	A	A	A	A	A
Ammonium sulfate, aqueous	7783202		B	A	A	A	A	A	A	A
Ammonium sulfide, aqueous	12 135761		-	A	A	A	A	A	A	A
Amyl acetate	628637		B	A	A	B	A	A	A	A
Amyl alcohol	71410		A	A	A	A	A	A	A	A
Amyl alcohol tert. see Methyl(2) butanol-2										
Amyl chloride tert.-	594365		-	C	C	C	A	A	A	A

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			Шланга материал внутреннего слоя **)								
			NBR2	EPDM	CIIR	CSM	PEX	UPE	UPE	FEP	
Обозначение рабочего тела	CAS-№	Конс*	Цвет обозначения шлангов								
			синий	фиол.	фиол.	зелен	синий	синий	фиол.	красн, фиол.	
							белый	белый	белый	белый	
			Semperit - маркировка шлангов								
			NBR2	EPDM	CIIR	CSM	XLPE	UPELP	UPE-P	FEP	
Резист			M	E	B	C	X	U	U	P	
Aniline	62533		C	B	A	C	A	A	A	A	
Aniline hydrochloride	142041		C	A	A	C	A	A	A	A	
Anol see Cyclohexanol											
Anon see Cyclohexanone											
Arceton 12 see Dichloro difluoromethane											
Arceton 22 see Chloro difluoromethane											
Barium chloride, aqueous	10 361372		B	A	A	A	A	A	A	A	
Benzalchloride see Benzylidene chloride											
Benzaldehyde	100527		C	A	B	C	A	A	A	A	
Benzene	71432		B	C	C	C	B	A	A	A	
Benzene	71432		C	C	C	C	A	A	A	A	
Benzine			A	C	C	C	A	A	A	A	
Benzine-Benzene-Ethanol-mixture		5:3:2	A	C	C	C	A	A	A	A	
Benzine-Benzene-mixture		1:1	A	C	C	C	A	A	A	A	
Benzoic acid, aqueous	65850		-	A	A	A	A	A	A	A	
Benzoic ethyl ester	93890		C	A	A	C	A	A	A	A	
Benzoic methyl ester	93583		C	A	A	C	A	A	A	A	
Benzyl alcohol	100516		C	A	A	A	A	A	A	A	
Benzyl chloride	100447		C	-	-	C	A	A	A	A	
Benzylidene chloride	98873		C	C	C	C	A	A	A	A	
Bleaching powder see Calcium hypochlorite											
Bleaching, solution off see sodium hypochlorit, solution off											
Borax, aqueous	1303964		B	A	A	A	A	A	A	A	
Boric acid, aqueous	10 043353		B	A	A	A	A	A	A	A	
Brindi acid			C	A	A	A	A	A	A	A	
Bromine	7726956		C	C	C	C	C	C	C	A	
Bromobenzene	108861		C	C	C	C	C	C	C	A	
Bunker C-oils see Heating oil H											
Butanediol(1,3), aqueous	107880		-	A	A	A	A	A	A	A	
Butanediol(1,4)	110634		A	A	A	A	A	A	A	A	
Butanol	71363		A	A	A	A	A	A	A	A	
Butanon(2) see Ethyl methyl ketone											
Butin(2)-diol(1,4)	110656		A	A	A	A	A	A	A	A	
Butyl acetate	123864		C	C	C	C	A	A	A	A	
Butyl acrylate	141322		C	-	-	C	A	A	A	A	
Butyl alcohol see Butanol											
Butyl aldehyde n-	123728		C	A	A	-	A	A	A	A	
Butyl amine	109739		C	B	B	C	A	A	A	A	
Butyl benzoate	136607		C	A	A	C	A	A	A	A	
Butyl chloride n- see Chlorobutane(1)											
Butyl diglycol acetate	124174		C	A	A	C	A	A	A	A	
Butyl ether	142961		C	C	C	C	A	A	A	A	
Butyl glycol acetate	112072		C	A	A	C	A	A	A	A	
Butyl glycol see Ethylene glycol monobutyl ether											
Butyl oleate n-	142778		C	A	A	C	A	A	A	A	
Butylene glycol-1,4 see 1,4-Butanediol											
Butyric acid	107926		C	B	C	C	A	A	A	A	
Butyric acid ethyl ester see Ethyl butyrate											
Calcium acetate, aqueous	543908		-	A	A	A	A	A	A	A	
Calcium chloride, aqueous	10 043524		B	A	A	A	A	A	A	A	
Calcium hastaulfate, aqueous	23 276622		B	A	A	A	A	A	A	A	
Calcium hydroxide see Lime water											
Calcium hypochlorite, aqueous	7778543		C	A	A	A	A	A	A	A	
Calcium nitrate, aqueous	10 124375		B	A	A	A	A	A	A	A	
Calcium phosphate	7758874	50 %	-	A	A	A	A	A	A	A	
Calcium salts, aqueous			-	A	A	A	A	A	A	A	
Calcium sulfate, aqueous	7778189		B	A	A	A	A	A	A	A	
Caproic acid n-	142621		A	A	A	C	B	A	A	A	
Carbon dioxide, gaseous	124389		A	A	A	A	A	A	A	A	
Carbon disulfide	75150		B	C	C	C	B	A	A	A	
Carbon tetrachloride see Tetrachloromethane											
Carbonic acid gas see Carbon dioxide											
Castor oil	8023834		A	A	A	A	A	A	A	A	
caustic llye	1310583		-	A	A	A	A	A	A	A	

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			NBR2	EPDM	CIIR	CSM	PEX	UPE	UPE	FEP
Обозначение рабочего тела	CAS-№	Конс*	Цвет обозначения шлангов							
			синий	фиол.	фиол.	зелен	синий	синий	фиол.	красн, фиол.
							белый	белый	белый	белый
			Semperit - маркировка шлангов							
			NBR2	EPDM	CIIR	CSM	XLPE	UPELP	UPE-P	FEP
Резист			M	E	B	C	X	U	U	P
Caustic soda see Soudim hydroxide solution of										
Caustic soda solution see Sodium hydroxide, solution of										
Chloric gas dry	7782505		C	-	-	-	C	C	C	A
Chloric gas dry	7782505		B	B	B	B	C	C	C	A
Chloric gas dry	7782505	0,5 %	C	A	A	A	A	A	A	A
Chloro difluoromethane	75456		-	-	-	-	-	-	-	-
Chloroacetic acid	79118		C	B	B	B	A	A	A	A
Chlorobenzene	108907		B	C	C	C	A	B	B	A
Chlorobutane(1)	109693		-	C	C	C	A	A	A	A
Chloroethane see Ethyl chloride										
Chloroform	67663		C	C	C	C	A	A	A	A
Chlorosulfonic acid	7790945		C	C	C	C	C	C	C	A
Chlorosulfuric acid	7791255		C	B	B	A	C	C	C	A
Chlorothene see Trichloroethane(1,1,1)										
Chromic acid, solution	7738945	25%	C	C	C	C	A	A	A	A
Chromium salts, aqueous			-	A	A	A	A	A	A	A
Citric acid see citric acid										
Citric acid, aqueous	77929		B	A	A	A	A	A	A	A
Coal tar oil			C	-	-	C	B	A	A	A
Cobalt salts, aqueous			-	A	A	A	A	A	A	A
Coloradol (purifier and degreasing agent)			-	C	C	C	A	A	A	A
Copper acetate, wäßrig	142712		-	A	A	A	A	A	A	A
Copper cyanide, aqueous	544923		-	A	A	A	A	A	A	A
Copper(II) chloride , aqueous	7447394		-	A	A	A	A	A	A	A
Copper(II) sulfate	7758987		-	A	A	A	A	A	A	A
Cresylic acid see Cresol i-										
Cresol i-	1319773		C	B	B	C	C	B	B	A
Crotonaldehyde	123739		C	A	A	C	A	A	A	A
Crude oil, aromatic base	8002059		A	C	C	C	A	A	A	A
Crude oil, aromatic base	8002059		A	C	C	C	A	A	A	A
Cyclohexane	110827		A	C	C	C	A	A	A	A
Cyclohexanol	108930		A	A	A	A	A	A	A	A
Cyclohexanone	108941		B	B	B	C	A	A	A	A
Cyclohexene	110838		B	C	C	C	A	A	A	A
Cyclohexylamine	108918		C	-	-	C	A	A	A	A
Decahydronaphthalene see Decalin										
Decalin cis-/trans-	91178		A	C	C	C	A	A	A	A
Desel fuel			A	C	C	B	A	A	A	A
Diacetone alcohol	123422		C	A	A	A	A	A	A	A
Dibenzyl ether	103504		C	B	B	C	A	A	A	A
Dibutyl ether see Butyl ether										
Dibutyl ketone	502567		C	A	A	C	A	A	A	A
Dibutyl phthalate	84742		C	A	A	C	A	A	A	A
Dibutyl sebacate	109433		C	A	A	C	A	A	A	A
Dichloro acetic acid	79436		C	A	A	A	A	A	A	A
Dichloro difluoromethane	75718		-	-	-	-	-	-	-	-
Dichloro ethane(1,2)	107062		C	C	C	C	B	B	B	A
Dichloro ethylene	25 323302		C	C	C	C	C	C	C	A
Dichloro methane	75092		-	C	C	C	A	A	A	A
Dichloro methylacetate	116541		C	A	A	C	A	A	A	A
Dichlorobenzene	95501		C	C	C	C	A	B	B	A
Diethyl amine	109897		B	C	C	C	A	A	A	A
Diethyl ethanol amine	111422		-	A	A	A	-	-	-	-
Diethyl ether see Ethyl ether										
Diethyl ketone	96220		C	A	A	C	A	A	A	A
Diethyl malonate	105533		C	A	A	A	A	A	A	A
Diethyl malonate	105533		C	A	A	A	A	A	A	A
Diethylene glycol	111466		A	A	A	A	A	A	A	A
Diethylene glycol dimethyl ether	111966		C	C	C	C	A	A	A	A
Diethylene glycol monoethyl ether	111773		A	A	A	A	A	A	A	A
Dihexyl phthalate	84753		C	A	A	C	A	A	A	A
Diisobutylene (mixture of isomers)	25 167708		-	C	C	-	A	A	A	A
Dimethyl amine	124403		-	B	B	C	A	A	A	A
Dimethyl aniline			C	B	B	C	A	A	A	A





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			NBR2	EPDM	CIIR	CSM	PEX	UPE	UPE	FEP	
Обозначение рабочего тела	CAS-№	Конс*	Цвет обозначения шлангов								
			синий	фиол.	фиол.	зелен	синий	синий	фиол.	красн, фиол.	
							белый	белый	белый	белый	
			Semperit - маркировка шлангов								
			NBR2	EPDM	CIIR	CSM	XLPE	UPELP	UPE-P	FEP	
Резист			M	E	B	C	X	U	U	P	
Methyl amine	74895	30 %	C	B	B	B	A	A	A	A	
Methyl chloride, dry, gaseous	74873		C	C	C	C	A	A	A	A	
Methyl chloroacetate	96344		C	A	A	C	A	A	A	A	
Methyl cyanide see Acetonitrile											
Methyl dichloro acetate see Dichloro acetic acid methyl ester											
Methyl ethyl ketone see Ethyl methyl ketone											
Methyl glykol	109864		A	A	A	A	A	A	A	A	
Methyl glykol acetate see Acetic acid -2- methoxy ethyl ester											
Methyl isobutyl ketone	108101		C	A	A	C	A	A	A	A	
Methyl methacrylate	80626		C	A	A	-	A	A	A	A	
Methyl styrene-alpha	98839		C	C	C	C	B	B	B	A	
Methyl(2) butanol-2	75854		A	A	A	A	A	A	A	A	
Methylene chloride see Dichloro methane											
Monochloro benzene see Chlorobenzene											
Monochloroacetic acid ethyl ester see Ethyl chloroacetate											
Monochloroacetic methyl ester see Methyl chloroacetate											
Monochloroethylene see Vinyl chloride											
Monochloromethane see Methyl chloride											
Monoisopropanol amine see Amino (1) propanol (2)											
Monostyrene see Styrene, monomeric											
Naphta			A	C	C	C	A	A	A	A	
Naphtalene	91203		C	C	C	C	C	A	A	A	
Nickel sulfate, aqueous	7786814		B	A	A	A	A	A	A	A	
Nitric acid	7697372	20 %	C	B	B	A	A	A	A	A	
Nitric acid	7697372	40 %	C	B	B	B	B	B	B	A	
Nitric acid	7697372	100 %	C	C	C	C	C	C	C	A	
Nitro benzene	98953		C	C	C	C	A	A	A	A	
Nitro propane n-	108032		C	A	A	A	A	A	A	A	
Nitrogen, gaseous	7727379		A	A	A	A	A	A	A	A	
Nitrotoluol o-	88722		C	C	C	C	A	A	A	A	
Nitrous gases			C	A	A	A	A	A	A	A	
Noble metal chlorides solutions of			-	A	A	A	A	A	A	A	
Nonanol(1)	143088		A	A	A	A	A	A	A	A	
Nonyl alcohol see Nonano (1)											
Nonyl(4)phenol	25 154523		C	C	C	C	A	A	A	A	
Octadecanoic acid	57114		A	C	B	C	A	A	A	A	
Octadecanoic acid	57114		A	A	A	A	A	A	A	A	
Octane	111659		A	C	C	B	A	A	A	A	
Octanol(1)	111875		B	B	B	B	A	A	A	A	
Octyl alcohol see Octanol (1)											
Oleic acid, saturated	112801		A	A	A	A	A	A	A	A	
Oleum	8014957		C	C	C	C	C	-	-	-	
Oxalic acid diethyl ester see Ethyl oxalate											
Oxalic acid, aqueous	144627		B	A	A	A	A	A	A	A	
Ozone, gaseous	10 028156		C	A	A	B	A	A	A	A	
Palmitic acid	57103		A	A	B	C	A	A	A	A	
Paraffine			A	B	B	B	A	A	A	A	
Paraffine oils	8012951		A	B	B	B	A	A	A	A	
Paraffine, emulsions of			-	B	B	B	A	A	A	A	
Pentane	109660		A	C	C	B	A	A	A	A	
Pentene n-	109671		A	C	C	B	A	A	A	A	
Perchloroethylene	127184		C	C	C	C	A	A	A	A	
Perchloroethylene	127184		C	C	C	C	A	A	A	A	
Petroleum ether	8032324		A	C	C	C	A	A	A	A	
Petroleum spirit			A	C	C	C	A	A	A	A	
Phenol	108952		C	A	A	C	A	A	A	A	
Phenyl ethyl ether	103731		C	C	C	C	A	A	A	A	
Phenyl hydrazine	100630		C	B	B	C	A	A	A	A	
Phosphoric acid ester			C	A	A	C	A	A	A	A	
Phosphoric acid tributyl ester see Tributyl phosphate											
Phosphoric acid, all concentrations	7664382		-	A	A	A	A	A	A	A	
Phosphorous hydride	7803512		C	A	A	A	A	A	A	A	



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			NBR2	EPDM	CIIR	CSM	PEX	UPE	UPE	FEP
Обозначение рабочего тела	CAS-№	Конс*	Цвет обозначения шлангов							
			синий	фиол.	фиол.	зелен	синий	синий	фиол.	красн, фиол.
							белый	белый	белый	белый
			Semperit - маркировка шлангов							
			NBR2	EPDM	CIIR	CSM	XLPE	UPELP	UPE-P	FEP
Резист			M	E	B	C	X	U	U	P
Sodium thiosulfate, aqueous	7772987		B	A	A	A	A	A	A	A
Solvent Naphtha see Heavy benzene										
Stannic(II) chloride, aqueous	7772998		-	A	A	A	A	A	A	A
Styrene, monomeric	100425		C	C	C	C	B	B	B	A
Sulfuric acid fuming see Oleum										
Sugar, aqueous	57501		B	A	A	A	A	A	A	A
Sulfur dioxide, gaseous	7446095		C	A	A	A	A	A	A	A
Sulfur dioxide, gaseous	7446095		C	A	A	A	A	A	A	A
Sulfur hexafluoride	2551624		B	A	A	B	A	A	A	A
Sulfur trioxide	7446119		C	B	B	A	A	-	-	-
Sulfuric acid	7664939	20 %	-	A	A	A	A	A	A	A
Sulfuric acid	7664939	50 %	C	B	B	A	A	A	A	A
Sulfuric acid	7664939	75 %	C	B	B	-	A	A	A	A
Sulfuric acid	7664939	96 %	C	C	C	-	B	B	B	A
Sulfurous acid	7782992		C	A	A	A	A	A	A	A
Tall oil fatty acid			A	C	C	C	A	A	A	A
Tannic acid	1401554		C	A	A	A	A	A	A	A
Tannic see Tannic acid										
Tar oil			C	-	-	C	B	A	A	A
Tartaric acid, aqueous	133379		-	A	A	A	A	A	A	A
Tetrachlorethane, dry	79345		C	C	C	C	A	A	A	A
Tetrachlorethene see Tetrachloroethylene										
Tetrachloromethane	56235		C	C	C	C	A	A	A	A
Tetrahydrofurane	109999		C	C	C	C	A	A	A	A
Tetrahydronaphthalene	119642		C	C	C	C	A	A	A	A
Tetralin see Tetrahydronaphthalene										
Thionyl chloride	7719097		C	C	C	C	C	-	-	-
Thiophene	110021		-	C	C	C	A	A	A	A
Titanium tetrachloride	7550450	100 %	C	C	C	C	-	-	-	-
Toluene	108883		-	C	C	C	B	B	B	A
Tributyl phosphate	126738		C	A	A	C	A	A	A	A
Trichloroacetic acid	76039		C	A	A	B	A	A	A	A
Trichloroethane(1,1,1)	71556		C	C	C	C	A	A	A	A
Trichloroethene see Trichloroethylene										
Trichloroethyl phosphate	306525		B	A	A	A	A	A	A	A
Trichloroethylene	79016		C	C	C	C	A	A	A	A
Tricresyl phosphate	1330785		B	A	A	C	A	A	A	A
Triethanol amine	102716		A	A	A	A	A	A	A	A
Triethyl amine	121448		A	C	C	B	A	A	A	A
Triethylene glycol	112276		A	A	A	A	A	A	A	A
Trimethyl amine	75503		A	C	C	B	A	A	A	A
Trioctyl phosphate	1806548		B	A	A	C	A	A	A	A
Turpentine	8006647		A	C	C	C	A	A	A	A
Urea	57136		A	A	A	A	A	A	A	A
Vaseline			A	A	A	A	A	A	A	A
Vinyl acetate	108054		C	A	A	C	A	A	A	A
Vinyl chloride	75014		C	-	-	C	C	C	C	A
Vinyl cyanide see Acrylonitrile										
Water glass			-	A	A	A	A	A	A	A
Water, demineralized	7732185		A	A	A	A	A	A	A	A
Water, demineralized	7732185		-	A	A	A	A	A	A	A
Water-methanol-mixture			-	A	A	A	A	A	A	A
White spirit			A	C	C	C	A	A	A	A
Xylene, mixture of isomers	1330207		B	C	C	C	A	A	A	A
Zinc acetate, aqueous	5970456		-	A	A	A	A	A	A	A
Zinc chloride, aqueous	7646857		-	A	A	A	A	A	A	A
Zinc sulfate, aqueous	7446197		-	A	A	A	A	A	A	A