

CHEMICAL RESISTANCE TABLE				
COMMON NAME	REF. TO ASTM STANDARDS	COMPOSITION	GENERAL PROPERTIES	POOR PERFORMANCE IN CONTACT WITH
Nitrile	NBR	Nitrile Butadiene	Excellent resistance to oils. Moderate resistance to aromatic hydrocarbons, good physical properties.	Ozone - Ketone - aldehyde esters - Chlorinated products and Nitro - hydrocarbons.
EPDM	EPDM	Ethylene Propylene Thermopolymer	Perfect resistance to ozone and weather conditions, to chemical products and ageing. Perfect resistance to vapour.	Mineral oils - solvents - aromatic hydrocarbons. Poor resistance to oil refinery products.
SBR	SBR	Styrene Butadiene	Good physical properties, good resistance to abrasion, poor resistance to oil refinery products.	Ozone - strong acids - greases - oils - hydrocarbons in general.
Natural rubber	NR	Polyisoprene (natural rubber)	Excellent physical properties, perfect resistance to abrasion, to acids, not resistant to oils.	Ozone - strong acids - greases and oils - hydrocarbons.
Neoprene	CR	Polychloroprene Chlorosulphonate	Excellent resistance to weather conditions. Good resistance to oil, good physical properties and flame resistant.	Concentrated oxidising acids - Ketone Esters - Chlorinated products - Aromatic and Nitrile hydrocarbons.
Viton	FPM	Hexafluorine Propylene Copolymer Vynilfluorid	Excellent resistance to high temperatures, especially with regard to air and oil. Perfect resistance to chemical products.	Esters and Ketones
Butile	IIR	Isobutylene Isoprene	Excellent resistance to weather conditions. Low permeability to heat. Poor resistance to oil refinery products.	Cuclor - hexane - heptane - petrol
Hypalon	CSM	Polyethylene Chlorosulphonate	Excellent resistance to ozone and weather conditions and to acids, good resistance to heat and abrasion, poor resistance to oil refinery products.	Concentrated oxidising acids - Ketone Esters - Chlorinated products - Aromatic and Nitrile hydrocarbons.

Information should only be seen as a rough guideline. It is always up to the customer to test.

CHEMICAL RESISTANCE TABLE

This table is to be used merely as a general reference guide, since the resistance of the elastomers may vary based on the concentration and temperature of the chemical products or in the case of intermittent or continuous use in contact with the elastomer. Unless specified otherwise, the class to be applied in contact with the elastomer is based on saturated solutions and/or concentrations at ambient temperature (21 C°). For certain chemical elements, when the working temperature exceeds the recommended temperature, the performance may be reduced, consequently the elastomer may have a shorter life.

CLASSIFICATION

class	change in volume in %	Effects upon physical properties
1	≤ 10	Insignificant or no detrimental influence, high resistance, suitable for continuous contact
2	> 10 ≤ 30	Slight influence, resistant
3	> 30 ≤ 60	Moderate influence, resistant to limited extent, suitable for short-term contact only, field-testing necessary
4	> 60	Market influence, not resistant

AAG RUBBER QUALITIES



chemical resistance table A-B

CHEMICAL PRODUCT			RUBBER QUALITIES					
MARKING OF THE MEDIUM	CONC.	ALLOWABLE WORKING TEMP. °C	NR/SBR	NBR	CR	CIIR	CSM	EPDM
Acetamide			3	2	2	1	2	1
Acetic acid	10 %	50	4	4	4	2	2	3
Acetic acid	50 %	50	4	3	4	3	3	4
Acetic acid conc.			4	2	3	2	3	1
Acetic anhydride			2	4	1	2	1	2
Acetone			1	4	2	1	3	1
Acetyl chloride					4		4	4
Acetylene			1	1	2	1	2	1
Acrylonitrile		50	4	4	2	4	3	3
Adipic acid				1				
Alum, aqueous		65	1	1	1	1	1	1
Aluminium chloride, aqueous		65	1	1	1	1	1	1
Aluminium flouride		65	1	1	1	1	1	1
Aluminiumsulfate, aqueous		65	1	1	1	1	1	1
Ammonium chloride, aqueous			1	1	1	1	1	1
Ammonia			1	1	1	1	1	1
Ammonia liquid						2	4	1
Ammonium carbonate		70	1	4	2	1		1
Ammonium hydroxide, solution			1	2	1	1	1	1
Ammonium nitrate, aqueous			1	1	1	1	1	1
Ammonium phosphate, aqueous			1	1	1	1	1	1
Ammonium sulfate, aqueous			1	1	1	1	1	1
Amyl acetate			4	4	4	2	4	2
Amyl alcohol		50	1	2	1	1	1	1
Amyl borate			4	1	1	4		4
Amyl chloronaphtene			4	4	3	4	4	4
Amyl naphtalene			4	3	4	4	4	4
Aniline			2	4	3	2	4	1
Aniline hydrochloride			3	2	4	2	4	2
Aniline oil			4	4	3	1	4	3
Animal oil		50	4	1	2	2	2	2
Ansul ether			4	3	4	3	4	3
Arsenic acid					1	1	1	1
Asphalt		100	4	2	3	4	3	4
Barium chloride, aqueous		100	1	1	1	1	1	1
Barium hydroxide		100	1	1	1	1	1	1
Barium sulfide		100	1	1	1	1	1	1
Beer			1	1	1	1	1	1
Beet sugar solution			1	1	1	1	1	1
Benzaldehyde			4	4	4	2	4	1
Benzene			4	4	4	4	4	4
Benzine			4	1	4	4	4	4

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AAG RUBBER QUALITIES



chemical resistance table B-C

CHEMICAL PRODUCT			RUBBER QUALITIES					
MARKING OF THE MEDIUM	CONC.	ALLOWABLE WORKING TEMP. °C	NR/SBR	NBR	CR	CIIR	CSM	EPDM
Benzyl alcohol				4	2	2	2	1
Benzyl benzoat			4	4	4	1		2
Benzyl chlorid			3	4	4	2	4	4
Black liquor			1	1	1	1	1	1
Blast furnace gas			3	3	1	3	3	3
Borax, aqueous			1	1	1	1	1	1
Boric acid, aqueous		100	1	1	1	1	1	1
Brake fluid		50	1	4	1	1	1	1
Bromine			4	4	4	4	3	4
Bromo benzene			4	4	4	4	4	4
Bromo trifluoride			4	4	4	4	4	4
Bunker oil			4	1	4	4	4	4
Butadien				4	2	3	2	3
Butane			4	1	2	4	1	4
Butane liquid			4	1	2	4	2	4
Butanol		100	1	1	1	2	1	1
Butene			4	2	3	4	3	4
Butter		100	4	1	3	4	3	3
Butyl acetate			4	4	4	3	4	2
Butyl acetyl ricinoleate			4	3	4	1	2	1
Butyl acrylate		50	4	4	4	4	4	4
Butyl amine			4	3	4	4	4	4
Butyl benzoate					4	1	4	1
Butyl carbitol				1	3	1	2	1
Butyl glycol			1	1	2	1	2	1
Butyl oleate			4		4	2	4	2
Butyl stearate		70	4	1	4	2	4	3
Butylene			4	2	3	4	3	4
Butyraldehyde			3	3	3	2	3	2
Calcium bisulfate, aqueous			3	1	1	2	1	2
Calcium chloride, aqueous			1	1	1	1	1	1
Calcium hydroxide		100	1	2	1	1	1	1
Calcium hypochlorite	20 %			3	2	1	1	1
Calcium hypochlorite, aqueous			4	4	4	1	2	1
Cane sugar solution			1	1	1	1	1	1
Carbitol			2	3	3	1	2	2
Carbolic acid (phenol)			3	3	3	3	3	1
Carbon dioxide			1	1	1	1	1	1
Carbon disulfide			4	3	4	4	4	4
Carbon monoxide			2	1	1	1	1	1
Carbon tetrachloride			4	3	4	4	4	4
Castor oil		100	1	2	3	1	2	1

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AAG RUBBER QUALITIES



chemical resistance table C-D

CHEMICAL PRODUCT			RUBBER QUALITIES					
MARKING OF THE MEDIUM	CONC.	ALLOWABLE WORKING TEMP. °C	NR/SBR	NBR	CR	CIIR	CSM	EPDM
Chile salpêtre			1	1	1	1	1	1
Chlorinated solvents			4	4	4	4	4	4
Chlorine			3	4	3	3	2	3
Chlorine dioxide				4	4	4	2	3
Chlorine trifluoride				4	4	3	4	4
Chlorine water	3 %		4	4	4	4	3	4
Chloro nitro ethane			4	4	4	4	4	
Chloroacetic acid			3	3	2	2	2	2
Chloroacetone				4	3	3	3	1
Chlorobenzene		50	4	4	4	4	4	4
Chlorobromomethane			4	4	4	4	4	4
Chlorododecane			4	4	4	4		4
Chloroform			4	4	4	4	4	4
Chloronaphtaline			4	4	4	4	4	4
Chloroprene			4	4	4	4	4	4
Chlorosulfonic acid			4	4	4	4	4	4
Chlortoluol			4	4	4	4	4	4
Chromic acid, solution	10-50 %	50	4	4	4	3	1	4
Citric acid		70	1	1	1	1	1	1
Coconut oil			4	1	2	2	3	2
Cod liver oil			4	1	2	2	2	2
Coke-oven gas			2	2	2	1	2	4
Copper (II) chloride		65	1	1	2	1	2	1
Copper (II) sulfate		65	1	1	1	2	1	1
Corn oil			4	1	3	2	3	2
Cottonseed oil		70	4	1	3	1	3	2
Creosote			4	2	3	4	3	4
Cresol i-		70	4	4	4	1	4	2
Cumene					4		4	
Cyclohexane			4	1	3	4	3	4
Cyclohexanol			4	2	1	4	1	4
Cyclohexanone			4	4	4	3	4	1
Cymene			4	4	4	4	4	4
Decalin cis-/trans-			4		4		4	
Decane			4	4	4	4	4	
Diacetone						1		1
Diacetone alcohol			4	4	1	1	1	1
Dibenzyl ether			4	4	4	1	4	2
Dibenzyl sebacate					4	2		2
Dibutyl amine			4	4	4	4	4	4
Dibutyl ether			4	3	3	3	3	3
Dibutyl phthalate			4	4	4	2	4	1

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AAG RUBBER QUALITIES



chemical resistance table D-E

CHEMICAL PRODUCT			RUBBER QUALITIES					
MARKING OF THE MEDIUM	CONC.	ALLOWABLE WORKING TEMP. °C	NR/SBR	NBR	CR	CIIR	CSM	EPDM
Dibutyl sebacate			4	4	4	2	4	2
Dichlore isopropyl ether			4	4	4	3	4	3
Dichlorobenzene			4	4	4	4	4	4
Dicyclohexylamine			4	2	4	4	4	4
Diesel fuel			4	1	3	4	3	4
Diethyl amine			4	2	3	4	3	4
Diethyl benzene			4	4	4	4	4	4
Diethyl sebacate				4	4	2	4	2
Diethylene glycol		100	1	1	1	1	1	1
Diisobutylene (mix of isomers)				2	3		3	
Diisopropyl benzene			4	4	4	4	4	4
Diisopropyl ketone			4	4	4	2	4	2
Dimethyl aniline			4	4	4	2	4	2
Dimethyl formamide N, N-			2	2	4	2-3	2	2
Dimethyl phtalate			4	4	4	2	4	2
Dinitrotoluene			4	4	4	4	4	4
Diocetyl phthalate		100	4	3	4	3	4	2
Diocetyl sebacate			4	3	4	2	4	2
Dioxane			4	4	4	2	4	
Dioxolane			4	4	4	3	4	2
Dipentene			4	2	4	4	4	4
Diphenyl		70	4	4	4	4	4	4
Diphenyl oxide			4	4	4	4	4	1
Epichlorohydrin		50	4	4	4	3	4	2
Ethanol		50	1	1	1	1	1	1
Ethanolamine		70	1	1	2	1	3	1
Ether			4	2	4	3	3	3
Ethyl acrylate				4	4	2	4	2
Ethyl benzene			4	4	4	4	4	4
Ethyl benzoate						2		2
Ethyl chloride			2	2	2	1	4	1
Ethyl chlorocarbonate			4		3	2	3	
Ethyl chloroformiate					3		3	
Ethyl formiate			4	4	2	2	2	2
Ethyl glycol			3	1	1	1		2
Ethyl glycol acetate			3	4	4	1	4	1
Ethyl mercaptane			4	4	4	4	2	4
Ethyl oxalate			1	4	3	1	4	1
Ethyl pentachlorobenzene			4	3	4	4	4	4
Ethyl silicate			2	1	1	1	2	1
Ethylacetate			3	4	3	2	3	1
Ethylacetoacetate			3	4	3	2	4	2

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AAG RUBBER QUALITIES



chemical resistance table E-F

CHEMICAL PRODUCT			RUBBER QUALITIES					
MARKING OF THE MEDIUM	CONC.	ALLOWABLE WORKING TEMP. °C	NR/SBR	NBR	CR	CIIR	CSM	EPDM
Ethylcellulose			1	1	1	2		2
Ethylene				1				
Ethylene chloride			4	4	4	3	4	2
Ethylene chlorohydrine			3	4	1	1	2	
Ethylene diamine			2	1	1	1	2	1
Ethylene glycol		100	1	1	2	1	2	1
Ethylene oxide				4	4	3	4	3
FCKW 12			4	2	1	2	1	2
FKW 125			3	1	3	3	1	1
FKW 134A			2	1	2	3	1	1
Fluid 101		100	4	1	4	4	4	4
Fluorine, liquid					4	3		3
Fluoro benzene			4	4	4	4		4
Fluoroboric acid			1	1	1	1	1	1
Fluorochloro ethylene					4	3		
Formaldehyde	40 %		1	1	1	1	1	1
Formic acid	10 %	60	2	2	2	1	2	2
Formic acid		70	2	3	3	2	3	2
Freon 11			2	1	1	4	1	4
Freon 112			4	2	3	4	2	4
Freon 113			2	1	1	3	1	3
Freon 114			1	1	1	1	1	1
Freon 114 B2			3	2	1	4	1	4
Freon 115			1	1	1	1	1	1
Freon 13 B1			1	1	1	1	1	1
Freon 142 B			1	1	1	1	1	1
Freon 152 A			1	1	1	1	3	1
Freon 21			4	4	3	3	4	3
Freon 218			1	1	1	1	1	1
Freon 22			1	3	1	1	1	1
Freon 31			2	4	1	1	2	1
Freon 316 C			1	1	1	1	1	1
Freon 318 C			1	1	1	1	1	1
Freon 32			1	1	1	1	1	1
Freon 502				1	2			4
Freon BF			4	2	2	4	2	
Freon MF			2	1	3	4	4	
Freon TA			1	1	1	1	1	1
Freon TC			2	1	1	1	1	2
Freon TF			2	4	4	4	4	4
Freon TMC			3	2	2	2	2	2
Freon T-P 35			1	1	1	1	1	1

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AAG RUBBER QUALITIES



chemical resistance table F-I

CHEMICAL PRODUCT			RUBBER QUALITIES					
MARKING OF THE MEDIUM	CONC.	ALLOWABLE WORKING TEMP. °C	NR/SBR	NBR	CR	CIIR	CSM	EPDM
Freon T-WD 602			2	2	2	1	2	2
Fuel oil		70	4	1	2	4	2	4
Fumaric acid			1	1	2	4	2	
Furan			4	4	4	3	4	3
Furfural			3	4	4	2	3	2
Gallic acid			2	3	2	1	2	2
Gasohol			4	3	4	4		4
Gelatine, aqueous			1	1	1	1	1	1
Glucose			1	1	1	1	1	1
Glycerol (glycerine)		100	1	1	1	1	1	1
Green liquor			1	1	1	1	1	1
Hexachlorobutadiene			4	1	4	4	4	4
Hexaldehyde			4	4	1	1	3	1
Hexane n-			4	1	1	4	2	4
Hexanol			1	1	2	2	2	3
Hexene			4	2	2	4	2	4
Hydraulic oil, glycol-based			1	1	1	1	1	1
Hydraulic oil, mineral oil			4	1	1	4	2	4
Hydraulic oil, phosphate ester			4	4	3	1	4	1
Hydraulic oil, silicate ester			4	3	3	4	3	4
Hydrazine				2	2	1	2	1
Hydrobromid acid			2	4	2	1	1	1
Hydrochloric acid	10 %	100	3	3	1	2	1	4
Hydrochlorid acid	20 %	50	2	2	1	1	1	2
Hydrocyanic acid	37 %		2	2	1	1	1	1
Hydrofluoric acid	50 %		3	3	1	1	1	1
Hydrofluoric acid	75 %		3	4	3	1	1	
Hydrofluoric acid, anhydrous				4	1	1		3
Hydrogen			1	1	1	1	1	1
Hydrogen peroxide	30 %		1	1	1	1	1	1
Hydrogen peroxide	85 %		4	4	4	3	3	3
Hydrogen sulfide			1	4	1	1	2	1
Hydroquinone			2	3				
Hypochlorous acid			2	4	3	2	2	3
Inorganic salts		70	1	1	1	1	1	1
Iodine pentafluoride			4	4	4	4	4	4
Iodoform						1		1
Iron (II) sulfate 65 1 1 1 1 1 1		65	1	1	1	1	1	1
Iron (III) chloride 65 1 1 1 1 1 1		65	1	1	1	1	1	1
Isobutanol 1 2 1 1 1 1			1	2	1	1	1	1
Isooctane 3 1 1 4 2 4			3	1	1	4	2	4
Isophorone 4 1 1				4		1		1

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AAG RUBBER QUALITIES



chemical resistance table I-M

CHEMICAL PRODUCT			RUBBER QUALITIES					
MARKING OF THE MEDIUM	CONC.	ALLOWABLE WORKING TEMP. °C	NR/SBR	NBR	CR	CIIR	CSM	EPDM
Isopropanol			2	2	1	1	1	1
Isopropyl acetate			4	4	4	2	4	2
Isopropyl chloride			4	4	4	4		4
Isopropyl ether			4	2	2	4	2	
Kerosene		70	4	1	3	4	3	4
Lactic acid		70	1	1	1	1	1	1
Lead sulphamate			2	2	2	1	2	1
Lead tetraethyl					2	4	4	4
Linoleic acid		70		2	4	4	4	4
Linseed oil			3	1	2	1	2	1
Lubricating oils		100	4	1	2	4	2	4
Magnesium chloride		65	1	1	1	1	1	1
Magnesium hydroxide			1	1	1	1	1	1
Magnesium sulfate, aqueous		65	1	1	1	1	1	1
Maleic acid			2	2	3	3	4	3
Maleic anhydride			2		3	3	4	3
Malic acid, aqueous			2	1	2	4	2	4
Mercury			1	1	1	1	1	1
Mercury chloride			2	2	3	1	1	1
Mesityl oxide			4	4	4	2	4	2
Metacrylic acid			4		2	2		2
Methane			4	1	1	4	2	4
Methanol		50	1	1	1	1	1	1
Methyl acetate			4	4	4	2	4	2
Methyl acrylate			4	4	4	2	4	2
Methyl bromide				2	4		4	
Methyl butyl ketone			4	4	4	2	4	2
Methyl chloride			4	4	4	3	4	3
Methyl cyclopentane			4		3	4		3
Methyl ethyl ketone								
see Ethyl methyl ketone			3	4	3	1	4	1
Methyl formiate			3	4	2	2	2	2
Methyl glykol acetate								
Acetic acid 2 methoxy ethyl ester		50	2	4	3	1	2	
Methyl isobutyle ketone			4	4	4	2	4	2
Methyl isopropyle ketone			4	4	4	2	3	3
Methyl methacrylate			4	4	3	3	4	3
Methyl salicylate				4	4	2	4	2
Methylaniline			4	4	4		4	
Methylene chloride			4	4	4	3	4	3
Metyl oleate			4	4	4	2		2
Milk			1	1	1	1	1	1

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AAG RUBBER QUALITIES



chemical resistance table M-P

CHEMICAL PRODUCT			RUBBER QUALITIES					
MARKING OF THE MEDIUM	CONC.	ALLOWABLE WORKING TEMP. °C	NR/SBR	NBR	CR	CIIR	CSM	EPDM
Mineral oil			3	1	2	4	2	4
Mineral oil ASTM Nr.I		100	3	1	1	4	1	4
Mineral oil ASTM Nr.II (IRM 902)		100	4	1	2	4	3	4
Mineral oil ASTM Nr.III (IRM 903)		100	4	1	4	4	4	4
Naphta			4	1	4	4	4	4
Naphtalene		80	4	4	4	4	4	4
Naphtanic acid			4	2		4		4
Natural gas			3	1	1	4	1	4
Nickel chloride		65	1	1	1	1	1	1
Nickel sulfate		65	1	1	1	1	1	1
Nitric acid	10 %	50	2	2	3	1	1	1
Nitric acid	60 %		4	4	4	4	2	4
Nitric acid fuming			4	4	4	4	4	4
Nitro benzene			4	4	4	1	4	1
Nitro ethane			2	4	3	2	2	2
Nitro methane			2	4	3	2	3	2
Nitro propane n-			3	4		1		1
Nitrogen			1	1	1	1	1	1
Nitrogen tetroxide			4	4	4	3	4	3
Octochlorotoluene			4	4	4	4	4	4
Octadecene			4	1	2	4	2	4
Octane			4			4		4
Octanol (1)			2	2	1	1	1	1
Oleic acid			4	1	4	4	3	3
Olive oil		50	3	1	2	2	2	3
Oxalic acid		70	1	3	2	1	1	1
Oxidising salt solutions		70			2		3	4
Oxige			3	1	1	1	1	1
Oxygen liquid				3		1		
Ozone		40	4	4	2	2	1	1
Palmitic acid			3	1	2	2	3	2
Perchloric acid				4	2	2	2	2
Perchloroethylene			4	3	4	4	4	4
Petroleum		95	4	1	2	4	3	4
Phenol		100	4	4	4	2	4	2
Phenyl ethyl ether			4	4	4	4	4	4
Phenyl hydrazine			3	4	3	3	4	2
Phorone			4	4	4	2	4	2
Phosphoric acid	50 %	50	1	3	2	1	1	1
Phosphoric acid, raw			3	3	3	3	1	3
Phosphorous trichloride			4	4	4	1		1
Picnic acid		100	2	2	1	2	1	2

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AAG RUBBER QUALITIES



chemical resistance table P-S

CHEMICAL PRODUCT			RUBBER QUALITIES					
MARKING OF THE MEDIUM	CONC.	ALLOWABLE WORKING TEMP. °C	NR/SBR	NBR	CR	CIIR	CSM	EPDM
Pine oil		70	4	2	4	4	4	4
Pinen		70	4	2	4	4	3	4
Piperidine			4	4	4	4	4	4
Potassium chloride			1	1	1	1	1	1
Potassium cyanide			1	1	1	1	1	1
Potassium hydroxide			2	3	3	1	1	1
Potassium permanganate		70			2		3	4
Potassium sulfate, aqueous			1	1	1	1	1	1
Propane			4	1	2	4	2	4
Propanol (1)		50	1	2	1	1	1	1
Propene			4	3	4	4	4	4
Propyl acetate			4	4	4	2	4	2
Propyl nitrate					4	2	4	2
Propylamine			4	4	4	3	4	3
Propylene oxide			4		4	2	4	2
Pydraul F-9		80	4	4	4	3	4	2
Pyridine			4	4	4	1	4	2
Pyrrole			3	4	4	4	4	3
Rape seed oil		100	4	1	2	3	3	2
Salicylic acid, aqueous				1	1	1		1
Salt and salt solutions		70	1	1	1	1	1	1
Sewage			3	1	2	3	1	2
Silicate ester			4	2	1	4	1	4
Silicofluoric acid			2	2	2	3	1	2
Silicone grease				1	2	1	2	1
Silicone oils				1	1	1	1	1
Skydrol 500		70	4	4	4	2	4	1
Skydrol 7000		70	4	4	4	2	4	1
Soap solutions			1	1	1	1	1	1
Sodium bicarbonate			1	1	1	1	1	1
Sodium bisulphate			1	1	1	1	1	1
Sodium carbonate		100	1	1	1	1	1	1
Sodium chloride			1	1	1	1	1	1
Sodium cyanide, solution of			1	1	1	1	1	1
Sodium hydroxide			2	3	3	1	3	1
Sodium hydroxide	10 %	100	1	1	1	1	1	1
Sodium hydroxide	20 %	100	1	4	1	1	1	1
Sodium hypochlorite			4	4	4	1	2	1
Sodium metaphosphate			1	1	3	1	2	1
Sodium nitrate			3	3	3	1	1	1
Sodium perborate			3	3	3	1	1	1
Sodium peroxide			2	3	2	1	2	1

Information should only be seen as a rough guideline. It is always up to the customer to test.

AAG RUBBER QUALITIES



chemical resistance table S-T

CHEMICAL PRODUCT			RUBBER QUALITIES					
MARKING OF THE MEDIUM	CONC.	ALLOWABLE WORKING TEMP. °C	NR/SBR	NBR	CR	CIIR	CSM	EPDM
Sodium phosphates			2	2	3	1	1	1
Sodium silicate			1	1	1	1	1	1
Sodium sulfate			1	1	1	1	1	1
Sodium sulphite			1	1	1	1	1	1
Sodium thiosulfate, aqueous			1	1	1	1	1	1
Soybean oil			3	1	2	3	2	3
Stannic (II) chloride, aqueous			1	1	1	2	1	2
Steam		120	3	1	2	1	2	1
Stearic acid		70	3	2	2	4	2	2
Styrene		23	4	4	4	4	4	4
Sugar solutions			1	1	1	1	1	1
Sulfur			4	4	1	1	1	1
Sulfur chloride			4	3	3	4	1	4
Sulfur dichloride			4	3	3	4	2	
Sulfur dioxide			3	3	3	2	4	1
Sulfur hexafluoride			1	1	1	1	2	1
Sulfur trioxide			3	3	3	3	2	3
Sulfuric acid	5-10 %	100	1	3	1	1	1	1
Sulfuric acid	10-50 %		1	1	1	1	1	3
Sulfuric acid	50-80 %	100	3	4	4	1	4	
Sulfuric acid fuming Oleum	20 %		4	4	4	4	4	4
Sulfurous acid			2	2	2	1	1	2
Tannic acid			2	1	1	1	1	1
Tar			4	2	3	4	3	4
Tartaric acid, aqueous		100	1	1	1	1	1	2
Test fuel B			4	2	3	4	3	4
Test fuel C			4	2	4	4	4	4
Tetrabromomethane			4	4		4		4
Tetrabutyl titanate			2	1	1	2		1
Tetrachlorethane				4		4		
Tetrahydrofurane			4	4	4	4	4	4
Tetralin			4	4	4	4	4	4
Thionyl chloride			4		4	4	4	4
Titanium tetrachloride			4	3	4	4	4	4
Toluene			4	4	4	4	4	4
Toluene diisocyanate		70	3		4	1	4	1
Transformer oil			4	1	2	4	3	4
Triacetin			3	2	2	1	2	1
Triaryl phosphate			4	4	3	1	3	1
Tributoxy ethyl phosphate			3	4	4	2	4	2
Tributyl phosphate		100	3	4	4	3	4	1
Trichloroacetat acid		20		2	2	2	2	2

Information should only be seen as a rough guideline. It is always up to the customer to test.

AAG RUBBER QUALITIES



chemical resistance table T-Z

CHEMICAL PRODUCT			RUBBER QUALITIES					
MARKING OF THE MEDIUM	CONC.	ALLOWABLE WORKING TEMP. °C	NR/SBR	NBR	CR	CIIR	CSM	EPDM
Trichloroethane (1, 1, 1)			4	4	4	4	4	4
Trichloroethylene			4	4	4	4	4	4
Tricresyl phosphate		70	3	4	4	1	4	1
Triethynol amine			2	3	1	2	1	2
Triethyl amine			4	1	3	4	3	4
Triethyl borane		70			4		4	3
Trinitrotoluene			4	4	2	4	2	4
Triocetyl phosphate			4	4	4	1	4	1
Turpentine			4	1	4	4	4	4
Turpentine oil			4	1	4	3	4	3
Varnishes			4	4	4	3	4	4
Vegetable oils			4	1	2	2	2	2
Vinegar			3	3	3	1	1	1
Vinyl acetylene		-20	2		2	1	2	1
Vinyl chloride monomer					4		4	2
Water			1	1	2	1	1	1
Water, distilled		100	1	1	2	1	2	1
Whisky and wines			1	3	1	1	1	1
Wood oil			4	1	2	1	2	1
Xylene, mixture of isomers			4	4	4	4	4	4
Zinc chloride			3	3	3	1	1	1
Zinc sulfate			1	1	1	1	1	1

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