

9 Medium handled

9.1 Medium handled

Media description	Media group	Chemical formula	Cons. max. [%]	PH max.	Temp max. {C}	Model	Material shaft seal				Material pump
							rotor	stator	elastomer	elastomer	
Acetic acid	Acid	(CH_3COOH)	5		20	V	SiC	Ca	EPDM	EPDM	
Acetic anhydride	Weak acid derivative	$(CH_3CO)_2O$	20		20	V	SiC	Ca	EPDM	EPDM	
Acetone	Ketone	$(CH_3)_2CO$				VC	SiC	Ca	EPDM	EPDM	
Acetyl chloride		CH_3COCl			40	VS	SiC	Ca	EPDM	EPDM	
Alcaline (bottle rinse)	Rinsing		2	< 9.5	40	V	TuC	TuC	HNBR	HNBR	
Alcohol (Ethanol)	Hydrocarbon	C_2H_5OH	100		60	V	SiC	Ca	EPDM	EPDM	
Alum (potassium aluminium sulphate)	Salt	$MI\ MIII\ (SO_4)_2$	3		80	VS	SiC	Ca	FPM	FPM	
Aluminium chloride	Halide	$AlCl_3$	5		50	VS	SiC	Ca	EPDM	EPDM	
Aluminium chloride	Halide	$AlCl_3$	25		20	VS	SiC	Ca	EPDM	EPDM	
Aluminium sulphate	Salt	$Al_2(SO_4)_3$			20	V	SiC	Ca	EPDM	EPDM	
Aluminium sulphate	Salt	$Al_2(SO_4)_3$	5		Boiling	VS	SiC	Ca	EPDM	EPDM	
Ammonia	Strong base	NH_3				VC	SiC	Ca	EPDM	EPDM	
Ammonium bicarbonate	Salt	$(NH_4)HCO_3$	10		40	V	SiC	Ca	EPDM	EPDM	
Ammonium sulphate	Salt	$(NH_4)_2SO_4$	20		60	V	SiC	Ca	EPDM	EPDM	
Antifreeze (glycol base, salt-free)	Alcohol		45		110	V	SiC	Ca	EPDM	EPDM	
Beer (not lathery / under pressure)	Alcohol		100		15	V	SiC	Ca	EPDM	EPDM	
Benzene	Hydrocarbon solvent	C_6H_6				VS	SiC	Ca	FPM	FPM	
Boric acid	Acid	H_3BO_3				V	SiC	Ca	EPDM	EPDM	
Buttermilk	Dairy product	fats + water	100		60	V	SiC	Ca	EPDM	EPDM	
Butyl alcohol (butanol)	Hydrocarbon	$CH_3(CH_2)_3OH$					SiC	Ca	EPDM	EPDM	
Calcium acetate	Salt	$C_4H_6O_4Ca$	10		60	VS	SiC	Ca	EPDM	EPDM	
Calcium nitrate (non-acidic)	Salt	$Ca(NO_3)_2$	10		60	VS	TuC	TuC	FPM	FPM	
Cider (apple cider)	Alcohol	H_2O + sucrose + alcohol	100		40	V	SiC	Ca	EPDM	EPDM	
Citric acid	Acid	$C_3H_4(OH)(COOH)_3$	5		20	VS	SiC	Ca	FPM	FPM	
Copper sulphate	Salt	$CuSO_4 \cdot 5H_2O$	5		80	V	TuC	TuC	HNBR	HNBR	
Corn oil	Vegetable oil		100		100	VS	SiC	Ca	FPM	FPM	
Diesel oil	Hydrocarbons					V	SiC	Ca	FPM	FPM	
Diethylene glycol (salt-free)	Alcohol	$C_4H_{10}O_3$	100		100	VC	SiC	Ca	EPDM	EPDM	
Ethanol (alcohol)	Hydrocarbon	C_2H_5OH	100		60	V	SiC	Ca	EPDM	EPDM	
Ethylene glycol (salt-free)	Alcohol	$(CH_2OH)_2$	100		100	V	SiC	Ca	EPDM	EPDM	
Ferric-III-chloride	Salt	$FeCl_3$	5		80	V	TuC	TuC	FPM	FPM	

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Fuel oil (light)	Hydrocarbon				80	VS	SiC	Ca	FPM	FPM	
Glycerin (glycerol)	Alcohol	C ₃ H ₈ O ₃	40		80	V	SiC	Ca	EPDM	EPDM	
Kerosene	Hydrocarbon		100		80	V	SiC	Ca	FPM	FPM	
Linseed oil	Vegetable oil		100		60	V	SiC	Ca	FPM	FPM	
Linseed oil + 3% sulphur acid	Vegetable oil		100		60	V	SiC	Ca	FPM	FPM	
Magnesium sulphate	Salt	MgSO ₄	10		80	V	SiC	Ca	FPM	FPM	
Malic acid	Acid	C ₄ H ₂ O ₃				V	SiC	Ca	FPM	FPM	
Methanol	Alcohol	CH ₃ OH				V	SiC	Ca	EPDM	EPDM	
Methyl glycol (propylene glycol)	Alcohol	C ₃ H ₆ (OH) ₂	100		20	VC	SiC	Ca	EPDM	EPDM	
Milk	Dairy product	fats + water				V	SiC	Ca	EPDM	EPDM	
Olive oil	Vegetable oil					VC	SiC	Ca	FPM	FPM	
Oxalic acid	Acid	H ₂ C ₂ O ₄	5		20	V	SiC	Ca	EPDM	EPDM	
Oxalic acid	Acid	H ₂ C ₂ O ₄	5		Boiling	VS	SiC	Ca	FPM	FPM	
Oxalic acid	Acid	H ₂ C ₂ O ₄	10		60	V	SiC	Ca	EPDM	EPDM	
Paraffins	Hydrocarbon					V	SiC	Ca	FPM	FPM	
Peanut oil	Vegetable oil		100		90	V	SiC	Ca	FPM	FPM	
Petroleum	Hydrocarbon	Hydrocarbon	100		80	V	SiC	Ca	FPM	FPM	
Potassium chlorate	Salt	KClO ₃				VS	TuC	TuC	HNBR	HNBR	
Potassium chloride	Salt	KCl				V	SiC	Ca	EPDM	EPDM	
Potassium hydroxide	Salt	KOH	5		40	VS	SiC	Ca	EPDM	EPDM	
Potassium nitrate	Salt	KNO ₃	5		30	VS	TuC	TuC	HNBR	HNBR	
Potassium sulphate	Salt	K ₂ SO ₄	3		20	VS	SiC	Ca	FPM	FPM	
Rape-seed oil	Vegetable oil	mixture			100	VS	SiC	Ca	FPM	FPM	
Sodium carbonate	Salt	Na ₂ CO ₃	6		60	V	SiC	Ca	EPDM	EPDM	
Sodium chloride	See sea water	NaCl									
Sodium hydroxide (soda lye)	Salt	NaOH	5		50	VS	TuC	TuC	HNBR	HNBR	
Sodium nitrate (non acidic)	Salt	NaNO ₃	10		60	V	SiC	Ca	EPDM	EPDM	
Sodium phosphate	Salt	Na ₃ PO ₄				V	SiC	Ca	EPDM	EPDM	
Sodium sulphate (non acidic)	Salt	Na ₂ SO ₄	5		60	V	SiC	Ca	EPDM	EPDM	
Soybean oil	Vegetable oil		100		100	V	SiC	Ca	FPM	FPM	
Spirits	Alcohol	H ₂ O + sucrose + alcohol	40		60	V	SiC	Ca	EPDM	EPDM	
Sulphuric acid	Acid	H ₂ SO ₄	5		30	VS	TuC	TuC	FPM	FPM	
Tannic acid	Acid	C ₇₆ H ₅₂ O ₄₆	20		80	V	SiC	Ca	FPM	FPM	
Tartaric acid	Acid	C ₄ H ₆ O ₆	8		40	VS	SiC	Ca	FPM	FPM	
Vinegar (wine vinegar)	Acid	CH ₃ COOH	10		60	VS	SiC	Ca	EPDM	EPDM	
Water, untreated / suspended solids <20 ppm	Water	H ₂ O + ...	100		60	VC	TuC	Ca	EPDM	EPDM	
Water, boiler feed water (conform. Vd TÜV 1466	Water	H ₂ O + ...	100		120	VC	TuC	Ca	EPDM	EPDM E425	
Water, brackish	Sea water	H ₂ O + ...	100	7	5	V	TuC	TuC	FPM	FPM	
Water, brackish	Sea water	H ₂ O + ...	100	7	10	V	TuC	TuC	FPM	FPM	
Water, brackish	Sea water	H ₂ O + ...	100	7	15	VS	TuC	TuC	FPM	FPM	

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Water, brackish	Sea water	H ₂ O + ...	100	7	20	VS	TuC	TuC	FPM	FPM
Water, brackish	Sea water	H ₂ O + ...	100	7	25	VS	TuC	TuC	FPM	FPM
Water, coast water	Sea water	H ₂ O + ...	100	7	5	VS	TuC	TuC	FPM	FPM
Water, coast water	Sea water	H ₂ O + ...	100	7	10	VS	TuC	TuC	FPM	FPM
Water, coast water	Sea water	H ₂ O + ...		7	15	VS	TuC	TuC	FPM	FPM
Water, condensate (conform Vd TÜV 1466)	Water	H ₂ O + ...	100		100	VS	TuC	Ca	EPDM	EPDM
Water, cooling water	Water	H ₂ O + ...			100	VS	TuC	TuC	HNBR	HNBR
Water, de-carbonised (softened)	Water	H ₂ O + ...	100		120	V	TuC	TuC	HNBR	HNBR
Water, de-ionised	Water	H ₂ O + ...			120	V	SiC	Ca	EPDM	EPDM
Water, distilled	Water	H ₂ O + ...				V	SiC	Ca	EPDM	EPDM
Water, fire fighting	Water	H ₂ O + ...	100		60	VC	TuC	TuC	HNBR	HNBR
Water, harbour	Sea water	H ₂ O + ...	100	7	5	VS	TuC	TuC	FPM	FPM
Water, harbour	Sea water	H ₂ O + ...	100	7	10	VS	TuC	TuC	FPM	FPM
Water, heating (conform Vd TÜV 1466)	Water	H ₂ O + ...	100		120	VC	SiC	Ca	EPDM	EPDM
Water, (conform VDI 2035)	Water	H ₂ O + ...	100		100	VC	TuC	Ca	EPDM	EPDM
Water, oil water mixture	Water		5		80	V	SiC	Ca	FPM	FPM
Water, ordinary sea water	Sea water	H ₂ O + ...	100	7	5	V	TuC	TuC	FPM	FPM
Water, ordinary sea water	Sea water	H ₂ O + ...	100	7	10	VS	TuC	TuC	FPM	FPM
Water, ordinary sea water	Sea water	H ₂ O + ...	100	7	15	VS	TuC	TuC	FPM	FPM
Water, ordinary sea water	Sea water	H ₂ O + ...	100	7	20	VS	TuC	TuC	FPM	FPM
Water (Ozon 0.5 mg/l)	Water	H ₂ O + ...			25	V	SiC	Ca	EPDM	EPDM
Water, pure (chemically neutral)	Water	H ₂ O + ...	100		60	V	SiC	Ca	EPDM	EPDM
Water, rinsing	Water	H ₂ O + ...			70	VS	TuC	TuC	FPM	FPM
Water, swimming-pool (chlorine 0.8 mg/l)	Water	H ₂ O + ...			25	VS	SiC	Ca	FPM	FPM
Water, tap (drinking water)	Water	H ₂ O + ...	100		60	V	SiC	Ca	EPDM	EPDM WRC/ACS