

Chemical strain	Conc. (%)	Temp. (°C)	VHE 100	VHE 050	VHE 010	VHE 109	VHE 104	VHE 118	VHE 041	VHE 102	VWE 625	VWE 642	VWE 504	VWE 720	VWE 327	VWE 358	VWE 842	
Polymer			NR	NR	SBR	NR/ graphite	NR/ graphite	NR/ graphite	NBR	NR/ graphite	IIR/ PVC	BIIR	CR	CSM	NR	NR	NBR	
			hard rubber- autoclav								soft rubber- autoclav							
acetic acid + fumes	10	30	+	+	+	+	+	+	+	+	-	-	-	-	-	-	-	
	10	60	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	
	10	80	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	50	20	-	-	-	+	-	+	-	-	-	-	-	-	-	-	-	
	50	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
100	40	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
acetic anhydride		50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
acetone		20	-	-	+	+	+	+	-	-	-	+	-	-	-	-	-	
		40	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	
acetylene, gas		20	-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	
aluminium chloride	conc.	20	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
	conc.	40	+	+	+	+	+	+	-	+	+	+	+	+	+	+	+	
	conc.	60	+	+	+	+	+	+	-	+	+	+	+	+	-	-	-	
	conc.	80	+	+	+	+	+	+	-	+	-	+	+	-	-	-	-	
	conc.	100	-	-	-	+	+	+	-	-	-	+	-	-	-	-	-	
aluminium hydroxide	conc.	60	+	+	+	+	+	+	-	+	+	+	+	+	+	+	+	
	conc.	80	+	+	+	+	+	+	-	+	-	+	+	-	-	-	-	
	conc.	100	+	+	+	+	+	+	-	+	-	+	-	-	-	-	-	
aluminium potassium sulphate		80	+	+	+	+	+	+	-	+	-	+	+	-	+	+	-	
		100	+	+	-	+	+	+	-	+	-	+	+	-	-	-	-	
aluminium sulphate	conc.	20	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
	conc.	40	+	+	+	+	+	+	-	+	+	+	+	+	+	+	-	
	conc.	60	+	+	+	+	+	+	-	+	+	+	+	+	-	-	-	
	conc.	100	+	+	+	+	+	+	-	+	-	+	+	-	-	-	-	

Chemical strain	Conc. (%)	Temp. (°C)	VHE 100	VHE 050	VHE 010	VHE 109	VHE 104	VHE 118	VHE 041	VHE 102	VWE 625	VWE 642	VWE 504	VWE 720	VWE 327	VWE 358	VWE 842	
Polymer			NR	NR	SBR	NR/ graphite	NR/ graphite	NR/ graphite	NBR	NR/ graphite	IIR/ PVC	BIIR	CR	CSM	NR	NR	NBR	
			hard rubber- autoclav								soft rubber- autoclav							
ammonia, moist	3	40	+	+	+	+	+	+	+	+	+	+	+	-	-	-	-	
	3	60	-	-	-	-	-	-	-	-	+	+	+	-	-	-	-	
	3	80	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-	
	10	20	+	+	+	+	+	+	+	+	+	+	+	-	-	-	-	
	10	40	+	+	+	+	+	+	-	-	+	+	+	-	-	-	-	
	10	60	-	+	+	+	+	+	-	-	-	-	-	-	-	-	-	
	25	20	+	+	+	+	+	+	-	-	-	+	+	-	-	-	-	
ammonium chloride	conc.	60	+	+	+	+	+	+	-	+	+	+	+	+	+	+	+	
	conc.	80	+	+	+	+	+	+	-	+	-	+	-	-	-	-	-	
	conc.	100	-	-	-	+	+	+	-	-	-	+	-	-	-	-	-	
ammonium fluoride	conc.	60	+	+	+	+	+	+	-	+	+	+	+	+	+	+	+	
	conc.	80	+	+	+	+	+	+	-	+	+	+	+	+	-	-	-	
	conc.	100	-	-	-	+	+	+	-	-	-	+	-	-	-	-	-	
ammonium nitrate	conc.	80	+	+	+	+	+	+	-	+	-	+	+	-	-	-	-	
ammonium sulfate	conc.	60	+	+	+	+	+	+	-	+	+	+	+	+	-	-	-	
	conc.	80	+	+	+	+	+	+	-	+	+	+	-	-	-	-	-	
	conc.	100	-	-	+	-	+	+	-	-	-	-	-	-	-	-	-	
amyl alcohol		20	+	+	+	+	+	+	+	+	+	+	+	+	-	-	-	
		40	+	+	+	+	+	+	+	+	-	+	+	-	-	-	-	
barium chloride	conc.	40	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
	conc.	80	+	+	+	+	+	+	-	+	+	+	+	-	-	-	-	
	conc.	100	-	-	+	+	+	+	-	-	-	+	-	-	-	-	-	
benzine 100/140		40	-	-	-	-	-	-	+	-	-	-	-	-	-	-	+	
boiler feed water		60	+	+	+	+	+	+	-	+	+	+	+	+	+	+	-	

Chemical strain	Conc. (%)	Temp. (°C)	VHE 100	VHE 050	VHE 010	VHE 109	VHE 104	VHE 118	VHE 041	VHE 102	VWE 625	VWE 642	VWE 504	VWE 720	VWE 327	VWE 358	VWE 842	
Polymer			NR	NR	SBR	NR/ graphite	NR/ graphite	NR/ graphite	NBR	NR/ graphite	IIR/ PVC	BIIR	CR	CSM	NR	NR	NBR	
			hard rubber- autoclav								soft rubber- autoclav							
boric acid aqueous solution	conc.	20	+	+	+	+	+	+	+	+	+	+	+	-	+	+	+	
	conc.	60	+	+	+	+	+	+	-	+	+	+	+	-	-	-	-	
	conc.	80	+	+	+	+	+	-	-	-	-	-	-	-	-	-	-	
	conc.	100	-	-	+	+	+	-	-	-	-	-	-	-	-	-	-	
bromic acid+fumes	conc.	40	+	+	+	+	+	+	-	+	+	+	-	+	-	-	-	
	conc.	60	-	+	+	+	+	+	-	+	-	+	-	-	-	-	-	
butane		40	-	-	+	-	+	-	-	-	-	+	+	+	-	-	+	
butanol	conc.	20	+	+	+	+	+	+	+	+	+	+	+	-	-	-	+	
	conc.	40	+	+	+	+	+	+	+	+	+	-	-	-	-	-	-	
	conc.	60	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
butyric acid	conc.	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
calcium bisulphite	conc.	80	-	+	+	+	+	+	-	+	+	+	+	-	-	-	-	
calcium chloride	conc.	40	+	+	+	+	+	+	+	+	+	+	+	+	-	-	+	
	conc.	60	+	+	+	+	+	+	-	+	+	+	+	+	-	-	-	
	conc.	80	+	+	+	+	+	+	-	+	-	+	+	+	-	-	-	
	conc.	100	-	-	+	+	+	+	-	+	-	+	-	-	-	-	-	
calcium hydroxide		60	+	+	+	+	+	+	-	+	+	+	+	+	-	-	-	
		80	+	+	+	+	+	+	-	+	+	+	+	+	-	-	-	
		100	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	
calcium sulphate		40	+	+	+	+	+	+	+	+	+	+	+	+	-	-	+	
		60	+	+	+	+	+	+	-	+	+	+	+	+	-	-	-	
		80	+	+	+	+	+	+	-	+	-	+	+	+	-	-	-	
		100	-	-	+	+	+	+	-	-	-	+	-	-	-	-	-	
carbon dioxide		40	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
		80	-	+	+	+	+	+	+	+	-	+	-	-	-	-	-	
		100	-	+	-	+	+	+	-	-	-	+	-	-	-	-	-	

Chemical strain	Conc. (%)	Temp. (°C)	VHE 100	VHE 050	VHE 010	VHE 109	VHE 104	VHE 118	VHE 041	VHE 102	VWE 625	VWE 642	VWE 504	VWE 720	VWE 327	VWE 358	VWE 842	
Polymer			NR	NR	SBR	NR/ graphite	NR/ graphite	NR/ graphite	NBR	NR/ graphite	IIR/ PVC	BIIR	CR	CSM	NR	NR	NBR	
			hard rubber- autoclav								soft rubber- autoclav							
carbon dioxide chloride		80	-	+	+	+	+	+	+	+	-	+	-	-	-	-	-	
carbon monoxide		100	+	+	+	+	+	+	+	+	-	+	-	-	+	+	-	
chloroacetic acid	60	30	-	+	-	+	+	+	-	+	-	+	-	-	-	-	-	
	60	60	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
chlor-alkali electrolysis anolyte: 270 g/l NaCl 0,4 g/l Cl <sub>2</sub>		80	-	+	-	+	-	+	-	-	-	-	-	-	-	-	-	
chlor-alkali electrolysis brine 315 g/l NaCl		60	+	+	+	+	+	+	-	+	+	+	+	+	-	-	-	
		80	+	+	-	+	+	+	-	+	-	-	+	+	-	-	-	
		100	-	-	-	+	+	+	-	-	-	-	-	-	-	-	-	
chlorine,		20	-	+	-	+	-	+	-	+	-	-	-	-	-	-	-	
chlorine, aqueous	0,5	80	-	+	-	+	-	-	-	-	-	-	-	-	-	-	-	
chlorine, gaseous/dry		20	-	+	-	+	+	+	-	+	+	-	-	-	-	-	-	
chrome bath 500 g/l Cr O <sub>3</sub> 10 g/l H <sub>2</sub> SO <sub>4</sub>		65	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	
chromic acid swills up to 5% (45 g/l) Cr O <sub>3</sub>		20	-	-	-	-	-	-	-	-	+	-	-	+	-	-	-	
		80	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	
citric acid	conc.	20	+	+	+	+	+	+	+	+	-	+	+	+	+	+	+	
	conc.	50	+	+	+	+	+	+	+	+	-	+	+	+	+	+	+	
	conc.	60	+	+	+	+	+	+	+	+	-	-	-	-	-	-	-	
	conc.	80	-	+	+	+	+	+	+	-	+	-	-	-	-	-	-	
	conc.	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

Chemical strain	Conc. (%)	Temp. (°C)	VHE 100	VHE 050	VHE 010	VHE 109	VHE 104	VHE 118	VHE 041	VHE 102	VWE 625	VWE 642	VWE 504	VWE 720	VWE 327	VWE 358	VWE 842	
Polymer			NR	NR	SBR	NR/ graphite	NR/ graphite	NR/ graphite	NBR	NR/ graphite	IIR/ PVC	BIIR	CR	CSM	NR	NR	NBR	
			hard rubber- autoclav								soft rubber- autoclav							
condensate		60	+	+	+	+	+	+	-	+	+	+	+	+	+	+	-	
		100	+	+	-	+	+	+	-	-	-	+	-	-	-	-	-	
copper chloride		40	+	+	+	+	+	+	-	+	+	+	+	+	+	+	-	
		60	+	+	+	+	+	+	-	+	+	+	+	-	-	-	-	
		80	+	+	+	+	+	+	-	-	-	+	-	-	-	-	-	
copper salts	conc.	60	+	+	+	+	+	+	+	+	+	+	+	-	+	+	+	
	conc.	80	+	+	+	+	+	+	+	+	-	+	-	-	-	-	-	
	conc.	100	-	+	+	+	+	+	+	+	-	-	-	-	-	-	-	
copper sulphate	conc.	20	+	+	+	+	+	+	-	+	+	+	+	+	+	+	-	
	conc.	60	+	+	+	+	+	+	-	+	+	+	-	-	-	-	-	
	conc.	80	+	+	+	+	+	+	-	+	-	+	-	-	-	-	-	
	conc.	100	-	-	+	+	+	+	-	-	-	+	-	-	-	-	-	
deionized water		100	-	-	-	-	-	+	-	-	-	+	-	-	-	-	-	
drinking water		80	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	
ethyl acetate		50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
ethyl alcohol, pur		40	+	+	+	+	+	+	+	+	+	+	+	-	+	+	+	
flue gas		40	-	+	+	+	+	+	-	+	+	+	+	-	-	-	+	
SO <sub>2</sub> -, NO <sub>x</sub> -, HCL-, HF-		80	-	+	+	+	+	+	-	+	+	+	+	-	-	-	+	
haltig		100	-	-	-	+	-	+	-	-	-	+	-	-	-	-	-	
formaldehyde	40	30	+	+	+	+	+	+	+	+	+	+	-	-	-	-	-	
	40	50	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	
	40	60	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
formic acid	10	20	+	+	+	+	+	+	-	+	-	-	-	-	-	-	-	
	10	40	-	-	+	-	+	+	-	-	-	-	-	-	-	-	-	
	20	20	-	+	+	+	+	+	-	-	-	-	-	-	-	-	-	
	20	40	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

Chemical strain	Conc. (%)	Temp. (°C)	VHE 100	VHE 050	VHE 010	VHE 109	VHE 104	VHE 118	VHE 041	VHE 102	VWE 625	VWE 642	VWE 504	VWE 720	VWE 327	VWE 358	VWE 842
Polymer			NR	NR	SBR	NR/ graphite	NR/ graphite	NR/ graphite	NBR	NR/ graphite	IIR/ PVC	BIIR	CR	CSM	NR	NR	NBR
			hard rubber- autoclav									soft rubber- autoclav					
formic acid	25	20	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-
	25	40	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
glacial acetic acid	100	20	-	+	+	+	+	+	-	+	-	-	-	-	-	-	-
glauber salt		80	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
glucose		80	-	+	+	+	+	+	+	+	+	+	+	+	+	+	-
glycerine	conc.	30	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
	conc.	70	-	+	+	+	+	+	-	+	-	+	-	-	-	-	-
	conc.	80	-	-	+	+	+	+	-	-	-	+	-	-	-	-	-
glycol	conc.	60	+	+	+	+	+	+	-	+	-	+	+	-	-	-	-
	conc.	80	-	+	+	+	+	+	-	+	-	+	+	-	-	-	-
hexane	conc.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
hydrazine	15	20	+	+	+	+	+	+	-	+	-	+	-	-	-	-	-
	15	40	-	+	+	+	+	+	-	-	-	-	-	-	-	-	-
hydrochloric acid	10	40	+	+	+	+	+	+	+	+	-	+	+	+	+	+	+
max. 0,02 g/l org.	10	60	+	+	+	+	+	+	+	+	-	+	+	+	+	+	-
Cl- compounds	10	80	-	+	+	+	+	+	-	+	-	-	-	-	-	-	-
	10	100	-	-	-	+	+	+	-	-	-	-	-	-	-	-	-
	30	20	+	+	+	+	+	+	+	+	-	+	+	+	-	+	+
	30	40	+	+	+	+	+	+	-	+	-	+	+	-	-	-	-
	30	80	-	+	+	+	+	+	-	+	-	-	-	-	-	-	-
hydrochloric acid	37	30	+	+	+	+	+	+	-	+	-	+	+	+	-	-	-
max. 0,02 g/l org.	37	80	-	-	-	+	+	+	-	-	-	-	-	-	-	-	-
Cl-compounds	37	100	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-
hydrofluoric acid	10	30	+	+	+	+	+	+	+	+	+	+	-	+	+	+	+
	10	60	-	+	+	+	+	+	-	+	+	+	-	-	-	-	-
	30	30	+	+	+	+	+	+	-	+	+	+	-	+	-	-	-

Chemical strain	Conc. (%)	Temp. (°C)	VHE 100	VHE 050	VHE 010	VHE 109	VHE 104	VHE 118	VHE 041	VHE 102	VWE 625	VWE 642	VWE 504	VWE 720	VWE 327	VWE 358	VWE 842	
Polymer			NR	NR	SBR	NR/ graphite	NR/ graphite	NR/ graphite	NBR	NR/ graphite	IIR/ PVC	BIIR	CR	CSM	NR	NR	NBR	
			hard rubber- autoclav								soft rubber- autoclav							
hydrofluosilicic acid	30	40	-	-	+	+	+	+	-	+	+	+	-	-	-	-	-	
	40	30	-	+	-	+	-	-	-	-	+	-	-	-	-	-	-	
	40	40	+	+	+	+	+	+	-	+	+	+	+	+	-	-	-	
	40	50	-	-	+	+	+	+	-	-	-	-	-	-	-	-	-	
hydrogen peroxide	5	30	-	+	-	+	+	+	+	+	-	+	-	-	-	-	-	
hydrogen sulphide gaseous		30	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
		60	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	
		80	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
iron-III-chloride	conc.	60	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
	conc.	80	+	+	+	+	+	+	-	+	-	+	+	-	-	-	-	
	conc.	100	-	+	+	+	+	+	-	+	-	+	-	-	-	-	-	
iron-II-sulphate	conc.	60	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
	conc.	80	+	+	+	+	+	+	+	+	+	+	+	-	-	-	-	
	conc.	100	-	+	+	-	+	-	-	-	-	-	-	-	-	-	-	
isobutyl alcohol	conc.	20	-	-	+	-	-	-	-	-	+	+	+	-	+	+	+	
isopropyl alcohol	conc.	40	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
	conc.	60	-	+	+	+	+	+	+	+	-	+	+	+	-	-	+	
	conc.	80	-	-	+	+	+	+	-	+	-	-	+	-	-	-	-	
lactic acid		30	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
		50	+	+	+	+	+	+	-	+	-	+	-	+	-	-	-	
		80	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
lighting gas	conc.	40	-	+	+	-	-	-	+	-	+	+	+	+	-	-	-	
magnesium hydroxide	conc.	80	+	+	+	+	+	+	+	+	-	+	+	+	-	-	-	
	conc.	100	-	+	-	+	+	+	-	-	-	+	-	-	-	-	-	
magnesium salts		80	+	+	+	+	+	+	+	+	+	+	+	+	-	-	-	

Chemical strain	Conc. (%)	Temp. (°C)	VHE 100	VHE 050	VHE 010	VHE 109	VHE 104	VHE 118	VHE 041	VHE 102	VWE 625	VWE 642	VWE 504	VWE 720	VWE 327	VWE 358	VWE 842	
Polymer			NR	NR	SBR	NR/ graphite	NR/ graphite	NR/ graphite	NBR	NR/ graphite	IIR/ PVC	BIIR	CR	CSM	NR	NR	NBR	
			hard rubber- autoclav								soft rubber- autoclav							
magnesium chloride	conc.	40	+	+	+	+	+	+	-	+	+	+	+	+	-	-	-	
	conc.	60	+	+	+	+	+	+	-	+	+	+	+	-	-	-	-	
	conc.	80	+	+	+	+	+	+	-	+	-	+	-	-	-	-	-	
	conc.	100	-	-	+	+	+	+	-	-	-	+	-	-	-	-	-	
magnesium sulphate	conc.	60	+	+	+	+	+	+	-	+	+	+	+	+	-	-	-	
	conc.	80	+	+	+	+	+	+	-	+	-	+	-	-	-	-	-	
	conc.	100	-	-	+	+	+	+	-	-	-	+	-	-	-	-	-	
maleic acid		60	+	+	+	+	+	+	-	+	+	+	+	+	+	+	+	
		80	-	+	-	+	+	+	-	+	-	+	-	-	-	-	-	
mercury		60	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
		80	+	+	+	+	+	+	+	+	-	+	+	-	-	-	-	
		100	-	+	+	+	+	+	+	-	-	-	-	-	-	-	-	
mercury chloride		60	+	+	+	+	+	+	+	+	+	+	+	+	-	-	+	
		80	+	+	+	+	+	+	+	+	-	+	-	-	-	-	-	
		100	-	-	+	+	+	+	-	-	-	+	-	-	-	-	-	
methanol		20	+	+	+	+	+	+	+	+	-	-	+	+	-	-	+	
		30	-	+	+	+	+	+	+	+	-	-	+	+	-	-	+	
		50	-	-	-	+	-	+	-	-	-	-	-	-	-	-	+	
monochloroacetic acid ortho-phosphoric acid		40	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	
	50	30	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
	50	60	+	+	+	+	+	+	-	+	+	+	+	+	+	+	-	
nitric acid		50	+	+	+	+	+	+	-	+	-	+	+	-	-	-	-	
	5	30	-	+	+	+	+	+	+	+	+	+	-	+	-	-	-	
	5	60	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	
	20	20	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	
	20	60	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	



Chemical strain	Conc. (%)	Temp. (°C)	VHE 100	VHE 050	VHE 010	VHE 109	VHE 104	VHE 118	VHE 041	VHE 102	VWE 625	VWE 642	VWE 504	VWE 720	VWE 327	VWE 358	VWE 842	
Polymer			NR	NR	SBR	NR/ graphite	NR/ graphite	NR/ graphite	NBR	NR/ graphite	IIR/ PVC	BIIR	CR	CSM	NR	NR	NBR	
			hard rubber- autoclav								soft rubber- autoclav							
ortho-phosphoric acid	50	100	-	+	+	+	+	+	-	-	-	+	-	-	-	-	-	
	70	40	+	+	+	+	+	+	+	+	+	+	+	+	+	+	-	
	70	80	+	+	+	+	+	+	-	+	-	+	+	-	-	-	-	
oxalic acid	25	20	+	+	+	+	+	+	+	+	+	+	+	+	+	+	-	
	25	40	+	+	+	+	+	+	-	+	+	+	+	-	-	-	-	
	25	60	-	+	+	+	+	+	-	+	-	-	-	-	-	-	-	
	25	80	-	-	+	-	-	+	-	-	-	-	-	-	-	-	-	
ozone ( 5 ppm)		30	-	-	+	-	-	+	-	+	-	-	-	+	-	-	+	
phenol containing water	5	30	-	-	-	+	-	+	-	-	-	-	-	-	-	-	-	
phenolsulphoric acid		40	-	+	+	+	+	-	-	+	-	-	-	-	-	-	-	
phosphor, yellow		60	-	+	+	+	+	-	-	+	-	+	-	-	-	-	-	
		80	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-	
potassium bicarbonate	30	60	+	+	+	+	+	+	-	+	+	+	+	+	+	+	+	
potassium chloride	conc.	80	+	+	+	+	+	+	+	+	+	+	+	+	-	-	-	
	conc.	100	+	-	+	-	-	-	+	-	+	-	-	-	-	-	-	
potassium cyanide	conc.	100	+	+	+	+	+	+	-	+	-	+	-	-	-	-	-	
potassium hydroxid	10	60	+	+	+	+	+	+	-	+	+	+	+	+	-	-	-	
	10	80	+	+	+	+	+	+	-	+	-	+	+	-	-	-	-	
	10	100	-	-	+	+	+	+	-	-	-	+	-	-	-	-	-	
	20	60	+	+	+	+	+	+	-	+	+	+	+	+	-	-	-	
	20	80	+	+	+	+	+	+	-	+	-	+	-	-	-	-	-	
	20	100	-	-	+	+	+	+	-	-	-	+	-	-	-	-	-	
	50	60	+	+	+	+	+	+	-	+	+	+	+	+	-	-	-	
	50	80	+	+	+	+	+	+	-	+	-	+	-	-	-	-	-	
	50	100	-	-	+	+	+	+	-	-	-	+	-	-	-	-	-	

Chemical strain	Conc. (%)	Temp. (°C)	VHE 100	VHE 050	VHE 010	VHE 109	VHE 104	VHE 118	VHE 041	VHE 102	VWE 625	VWE 642	VWE 504	VWE 720	VWE 327	VWE 358	VWE 842	
Polymer			NR	NR	SBR	NR/ graphite	NR/ graphite	NR/ graphite	NBR	NR/ graphite	IIR/ PVC	BIIR	CR	CSM	NR	NR	NBR	
			hard rubber- autoclav								soft rubber- autoclav							
potassium nitrate	50	60	-	+	+	+	+	+	-	+	+	+	+	+	-	+	-	
	50	80	-	+	+	+	+	+	-	+	-	+	+	-	-	-	-	
potassium per- manganate	5	30	-	-	-	-	+	+	-	-	-	-	+	+	-	-	-	
potassium per- sulphate		60	-	+	+	+	+	+	-	+	+	+	+	+	+	+	+	
		80	-	+	-	+	+	+	-	-	-	+	+	+	-	-	-	
potassium sulphate	30	80	-	+	+	+	+	+	+	+	-	+	+	-	+	+	+	
salicylic acid		40	+	+	+	+	+	+	-	+	-	+	+	+	-	+	-	
		80	-	-	+	+	+	+	-	-	-	+	-	-	-	-	-	
sea water		60	+	+	+	+	+	+	-	+	+	+	+	+	+	+	-	
brackish water		80	+	+	+	+	+	+	-	+	-	+	+	-	-	-	-	
		100	-	+	-	+	+	+	-	+	-	+	-	-	-	-	-	
sodium acetate	conc.	80	+	+	+	+	+	+	+	+	-	+	+	-	+	+	+	
	conc.	100	-	-	-	+	+	+	-	-	-	+	-	-	-	-	-	
sodium bisulphate	conc.	80	+	+	+	+	+	+	+	+	-	+	+	-	+	+	+	
	conc.	100	-	-	-	+	+	+	-	-	-	+	-	-	-	-	-	
sodium bisulphite	conc.	80	+	+	+	+	+	+	+	+	-	+	+	-	-	-	-	
sodium carbonate	50	80	+	+	+	+	+	+	-	+	-	+	-	-	-	-	-	
	50	100	-	+	+	+	+	+	-	+	-	+	-	-	-	-	-	
sodium chloride	conc.	20	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
	conc.	40	+	+	+	+	+	+	-	+	+	+	+	+	-	-	-	
	conc.	60	+	+	+	+	+	+	-	+	+	+	+	+	-	-	-	
	conc.	80	-	+	+	+	+	+	-	+	-	+	+	-	-	-	-	
	conc.	100	-	-	+	+	+	+	-	-	-	+	-	-	-	-	-	
sodium cyanide	conc.	80	+	+	+	+	+	+	-	+	-	+	+	+	-	-	-	

Chemical strain	Conc. (%)	Temp. (°C)	VHE 100	VHE 050	VHE 010	VHE 109	VHE 104	VHE 118	VHE 041	VHE 102	VWE 625	VWE 642	VWE 504	VWE 720	VWE 327	VWE 358	VWE 842	
Polymer			NR	NR	SBR	NR/ graphite	NR/ graphite	NR/ graphite	NBR	NR/ graphite	IIR/ PVC	BIIR	CR	CSM	NR	NR	NBR	
			hard rubber- autoclav								soft rubber- autoclav							
sodium dichromate	10	20	+	+	+	+	+	+	-	+	+	+	+	+	+	+	+	
	10	60	-	+	+	+	-	+	-	+	+	+	-	+	-	-	-	
sodium hydroxide	5	30	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
	5	50	+	+	+	+	+	+	-	+	+	+	+	+	+	+	+	
	5	80	+	+	+	+	+	+	-	+	+	+	+	-	-	-	-	
	5	100	-	+	+	+	+	+	-	-	-	+	-	-	-	-	-	
	50	30	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
	50	60	+	+	+	+	+	+	-	+	+	+	+	+	+	+	+	
	50	80	+	+	+	+	+	+	-	+	-	+	+	-	-	-	-	
	50	100	-	+	+	+	+	+	-	-	-	+	-	-	-	-	-	
sodium hypochloride 15 g/l Cl <sub>2</sub>	2	20	-	+	-	+	+	+	-	-	-	-	-	+	-	-	-	
sodium hypochloride 150 g/l Cl <sub>2</sub>	12	30	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	
sodium iodide		-	+	-	-	-	-	-	+	-	+	-	-	-	-	-	-	
sodium nitrate		80	+	+	-	+	+	+	-	+	-	+	-	+	+	+	-	
sodium nitrite		80	+	+	-	+	+	+	-	+	-	+	-	+	+	+	-	
sodium phosphate	conc.	40	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
	conc.	60	+	+	+	+	+	+	-	+	+	+	+	+	-	-	-	
	conc.	80	+	+	+	+	+	+	-	+	-	+	+	-	-	-	-	
	conc.	100	-	+	+	+	+	+	-	-	-	+	-	-	-	-	-	
sodium sulphate	conc.	20	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
	conc.	60	+	+	+	+	+	+	+	+	+	+	+	+	-	-	-	
	conc.	80	+	+	+	+	+	+	-	+	-	+	+	-	-	-	-	
	conc.	100	-	-	+	+	+	+	-	-	-	+	-	-	-	-	-	

Chemical strain	Conc. (%)	Temp. (°C)	VHE 100	VHE 050	VHE 010	VHE 109	VHE 104	VHE 118	VHE 041	VHE 102	VWE 625	VWE 642	VWE 504	VWE 720	VWE 327	VWE 358	VWE 842
Polymer			NR	NR	SBR	NR/ graphite	NR/ graphite	NR/ graphite	NBR	NR/ graphite	IIR/ PVC	BIIR	CR	CSM	NR	NR	NBR
			hard rubber- autoclav									soft rubber- autoclav					
sodium sulphate hydrogen	conc.	100	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
sodium sulphite	conc.	20	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
	conc.	60	+	+	+	+	+	+	-	+	+	+	+	+	-	-	-
	conc.	80	+	+	+	+	+	+	-	+	-	+	-	-	-	-	-
	conc.	100	-	-	+	+	+	+	-	-	-	+	-	-	-	-	-
spinning bath acid 25% H <sub>2</sub> SO <sub>4</sub> 200 mg/l CS <sub>2</sub> 200 mg/l H <sub>2</sub> S		20	+	+	+	+	+	+	-	+	-	+	+	-	-	-	-
		60	-	+	+	+	+	+	-	+	-	-	-	-	-	-	-
		80	-	+	+	+	+	+	-	+	-	-	-	-	-	-	-
		100	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-
sugar solution	conc.	40	+	+	+	+	+	+	+	+	-	+	+	+	+	+	+
	conc.	50	-	+	+	+	+	+	+	+	-	-	-	-	-	-	-
	conc.	70	-	+	+	+	+	+	+	+	-	-	-	-	-	-	-
sugar solution, raw	conc.	80	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-
		30	-	+	+	+	+	+	-	+	-	+	+	-	-	-	-
sulphur dioxide		60	-	-	-	+	+	+	-	+	-	-	-	-	-	-	-
		60	-	-	-	+	+	+	-	+	-	-	-	-	-	-	-
sulphuric acid	10	60	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
	10	80	+	+	+	+	+	+	+	+	-	+	+	-	-	-	-
	10	100	-	+	+	+	+	+	-	-	-	-	-	-	-	-	-
	50	60	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
	50	80	+	+	+	+	+	+	-	+	-	+	-	-	-	-	-
	60	30	+	+	+	+	+	+	-	+	+	+	+	+	+	+	+
sulphuric acid	60	40	+	+	+	+	+	+	-	+	+	+	+	+	-	-	-
	60	60	-	+	+	+	+	+	-	+	+	+	+	-	-	-	-
	60	80	-	-	+	+	+	+	-	+	-	+	-	-	-	-	-
	70	20	-	+	+	+	+	+	-	+	+	+	+	-	-	-	-

Chemical strain	Conc. (%)	Temp. (°C)	VHE 100	VHE 050	VHE 010	VHE 109	VHE 104	VHE 118	VHE 041	VHE 102	VWE 625	VWE 642	VWE 504	VWE 720	VWE 327	VWE 358	VWE 842	
Polymer			NR	NR	SBR	NR/ graphite	NR/ graphite	NR/ graphite	NBR	NR/ graphite	IIR/ PVC	BIIR	CR	CSM	NR	NR	NBR	
			hard rubber- autoclav								soft rubber- autoclav							
sulphuric acid	70	30	-	-	+	+	+	+	-	+	+	-	-	-	-	-	-	
	70	40	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	70	60	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
sulphurous acid	5	40	-	-	-	+	+	+	-	+	-	-	+	-	-	-	-	
tannic acid		100	+	+	+	+	+	+	+	+	+	+	+	+	-	-	-	
tin chloride	conc.	60	+	+	+	+	+	+	-	+	+	+	+	+	+	+	+	
	conc.	80	+	+	+	+	+	+	-	+	-	+	+	-	-	-	-	
	conc.	100	-	+	-	+	+	+	-	-	-	+	-	-	-	-	-	
tin sulphate	conc.	60	+	+	+	+	+	+	-	+	+	+	+	+	+	+	+	
	conc.	80	+	+	+	+	+	+	-	+	-	+	+	-	-	-	-	
	conc.	100	-	+	-	+	+	+	-	-	-	+	-	-	-	-	-	
titanium sulphate		100	-	+	+	+	+	-	-	-	+	-	-	-	-	-		
urea	conc.	30	+	+	+	+	+	+	+	+	-	-	-	-	-	-	-	
	conc.	50	-	+	+	+	+	+	+	+	-	-	-	-	-	-	-	
	conc.	60	-	-	-	+	+	+	-	+	-	-	-	-	-	-	-	
waste water pH 1 - 13 without org. solvent		60	+	+	+	+	+	+	-	+	+	+	+	+	+	+	-	
		80	+	+	+	+	+	+	-	+	-	+	+	-	-	+	-	
		100	+	+	+	+	+	+	-	+	-	-	-	-	-	-	-	
water		70	+	+	+	+	+	+	+	+	+	+	+	+	+	+	-	
		100	-	+	+	+	+	+	+	+	-	-	-	-	-	-	-	
zinc chloride	conc.	20	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
	conc.	60	+	+	+	+	+	+	-	+	+	+	+	+	-	-	-	
	conc.	80	+	+	+	+	+	+	-	+	-	+	-	-	-	-	-	
	conc.	100	-	-	+	+	+	+	-	-	-	+	-	-	-	-	-	
zinc oxyde	conc.	80	+	+	+	+	+	+	-	+	-	+	+	+	+	+	-	
	conc.	100	-	-	+	+	+	+	-	-	-	+	-	-	-	-	-	

Chemical strain	Conc. (%)	Temp. (°C)	VHE 100	VHE 050	VHE 010	VHE 109	VHE 104	VHE 118	VHE 041	VHE 102	VWE 625	VWE 642	VWE 504	VWE 720	VWE 327	VWE 358	VWE 842	
Polymer			NR	NR	SBR	NR/ graphite	NR/ graphite	NR/ graphite	NBR	NR/ graphite	IIR/ PVC	BIIR	CR	CSM	NR	NR	NBR	
			hard rubber- autoclav								soft rubber- autoclav							
zinc sulphate	conc.	20	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
	conc.	60	+	+	+	+	+	+	-	+	+	+	+	+	-	-	-	
	conc.	80	-	+	+	+	+	+	-	+	-	+	-	-	-	-	-	
	conc.	100	-	-	+	+	+	+	-	-	-	+	-	-	-	-	-	
zinc sulphide	conc.	80	+	+	+	+	+	+	-	+	-	+	+	-	+	+	-	

These statements are based on careful laboratory tests and our practical experiences.

They are non-binding recommendations and are made to our best knowledge, but are given without any liability.

If you have any questions, we will be pleased to give you advice.

Explanations:           + = resistant                   - = not resistant or not tested

Abbreviations and symbols

BIIR	bromo butyl rubber
CR	chloroprene rubber
CSM	chlorosulphonated rubber
IIR	isobutylene-isoprene rubber (butyl rubber)
NR	natural rubber
NBR	nitrile-butadiene rubber
SBR	styrene-butadiene rubber

Before using the material, please make sure, that you have the latest issue of our material description.

All statements in this description are in accordance with our current knowledge. Claims cannot be derived from it.

Products are subject to change without notice.