Chemische Kompatibilität - Werkstoffe

🟢 geeignet 🟡 ausreichend 🔴 ungeeignet	Polyurethan	Acetalhaz	Thermoplastisches Elastomer	Nitrilgummi	Hydriertes Nitrilgummi	Ethylen Propylen	Fluorelastomer	Fluoroelastomer	Polytetrafluorethylen
Flüssigkeit	**PU**	**POM**	**TPE**	**NBR**	**HNBR**	**EPDM**	**FKM**	**MVQ**	**PTFE**
Äthylenazetat	🔴	🟢	🟡	🔴	🔴	🟢	🔴	🔴	🟢
Essigsäurenpentylester	🔴	🔴	🔴	🔴	🔴	🟢	🔴	🔴	🟢
Essigsäurenbutylster	🔴	🟡	🔴	🔴	🔴	🟡	🔴	🔴	🟢
Kaliumacetat	🔴	🟢	🟡	🔴	🔴	🟢	🔴	🔴	🟢
Äthylenazetat	🔴	🟢	🟡	🔴	🔴	🟢	🔴	🔴	🟢
Essig	🔴	🟢	🟢	🟡	🟡	🟢	🟡	🟢	🟢
Aceton	🔴	🟢	🟢	🔴	🔴	🟢	🔴	🔴	🟢
Acetonitril	🔴	🔴	🟡	🔴	🔴	🟡	🔴	🔴	🟢
Acetophenon	🔴	🔴	🔴	🔴	🔴	🟢	🔴	🔴	🟢
Acetylen	🔴	🟢	🟢	🔴	🔴	🟢	🔴	🔴	🟢
Essigsäure (20%)	🔴	🟡	🟢	🟡	🟡	🟢	🟡	🟡	🟢
Essigsäure (5%)	🔴	🟢	🟢	🟡	🟡	🟢	🟡	🟢	🟢
Essigsäure (50%)	🔴	🔴	🟡	🔴	🔴	🟢	🔴	🔴	🟢
Carbonsäure	🔴	🔴	🔴	🟢	🟢	🔴	🔴	🔴	🟢
Zitronensäure	🔴	🟡	🟡	🟢	🟢	🟢	🟢	🟢	🟢
Salzsäure	🔴	🔴	🟡	🔴	🔴	🟡	🟡	🔴	🟢
Chloressigsäure (10%)	🔴	🔴	🟡	🔴	🔴	🟢	🔴	🔴	🟢
Chlorsulfonsäure	🔴	🔴	🔴	🔴	🔴	🔴	🔴	🔴	🟢
Chromsäure (10%)	🔴	🔴	🟡	🔴	🔴	🟡	🟢	🔴	🟢
Chromsäure (25%)	🔴	🔴	🔴	🔴	🔴	🟢	🟢	🔴	🟢
Karbolsäure	🔴	🔴	🔴	🔴	🔴	🔴	🟡	🔴	🟢
Flusssäure (10%)	🔴	🔴	🟡	🔴	🔴	🟡	🔴	🔴	🟢
Ameisensäure	🔴	🔴	🟡	🔴	🔴	🟡	🔴	🔴	🟢
Phosphorsäure (30%)	🔴	🔴	🟡	🔴	🔴	🟢	🟢	🔴	🟢
Gluconsäure	🟡	🟢	🔴	🔴	🔴	🟡	🔴	🔴	🟢
Salzsäure	🔴	🔴	🟡	🔴	🔴	🟡	🟢	🔴	🟢
Salpetersäure (10%)	🔴	🔴	🟡	🔴	🔴	🔴	🟢	🔴	🟢
Salpetersäure, konzentriert	🔴	🔴	🔴	🔴	🔴	🔴	🟢	🔴	🟢
Ölsäure	🔴	🟢	🟡	🟢	🟢	🔴	🟢	🔴	🟢
Palmitinsäure	🟡	🟢	🟢	🟡	🟡	🔴	🟢	🔴	🟢
Perchlorsäure (10%)	🔴	🔴	🟢	🔴	🔴	🟡	🟢	🔴	🟢
Schwefelsäure (30%)	🔴	🔴	🟢	🔴	🔴	🟢	🟢	🔴	🟢
Weinsäure	🔴	🔴	🟡	🟢	🟢	🟡	🟢	🟢	🟢
Trichloressigsäure	🔴	🔴	🟢	🟡	🟡	🟡	🔴	🟡	🟢
Methylalkohol	🔴	🟢	🟡	🟢	🟢	🟢	🔴	🟢	🟢
Wasser	🟡	🟢	🟡	🟢	🟢	🟢	🟢	🟢	🟢
Wasser 100° C	🔴	🟢	🟡	🟡	🟢	🟢	🟡	🟡	🟢
Ammoniakwasser	🔴	🔴	🔴	🔴	🔴	🟢	🟡	🔴	🟢
Chlorwasser	🔴	🟢	🟢	🔴	🔴	🟡	🟢	🔴	🟢
Destilliertes Wasser	🟡	🟢	🟢	🟡	🟢	🟡	🟡	🟢	🟢
Wasser-Glykol	🟡	🟢	🟡	🟢	🟢	🟢	🟢	🟢	🟢
Meerwasser	🟢	🟢	🟢	🟢	🟢	🟢	🟢	🟡	🟢
Wasser-Öl	🟡	🟢	🟢	🟢	🟢	🔴	🟢	🟢	🟢

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Flüssigkeit	**PU**	**POM**	**TPE**	**NBR**	**HNBR**	**EPDM**	**FKM**	**MVQ**	**PTFE**
Wasserstoffsuperoxid (1%)	●	●	●	●	●	●	●	●	●
Wasserstoffsuperoxid (30%)	●	●	●	●	●	●	●	●	●
Äthylalkohol	●	●	●	●	●	●	●	●	●
Methanol	●	●	●	●	●	●	●	●	●
Butylamin	●	●	●	●	●	●	●	●	●
Ammonikak (10%)	●	●	●	●	●	●	●	●	●
Essigsäureanhydrid	●	●	●	●	●	●	●	●	●
Kohlendioxid	●	●	●	●	●	●	●	●	●
Schwefeldioxid	●	●	●	●	●	●	●	●	●
Anilin	●	●	●	●	●	●	●	●	●
Luft	●	●	●	●	●	●	●	●	●
Stickstoff	●	●	●	●	●	●	●	●	●
Benzaldehyd	●	●	●	●	●	●	●	●	●
Benzin	●	●	●	●	●	●	●	●	●
Benzin, 100 Oktan	●	●	●	●	●	●	●	●	●
Mineralbenzin	●	●	●	●	●	●	●	●	●
Benzol	●	●	●	●	●	●	●	●	●
Bier	●	●	●	●	●	●	●	●	●
Borax	●	●	●	●	●	●	●	●	●
Bromid	●	●	●	●	●	●	●	●	●
Butadien	●	●	●	●	●	●	●	●	●
Butan	●	●	●	●	●	●	●	●	●
Butanol	●	●	●	●	●	●	●	●	●
Butylen	●	●	●	●	●	●	●	●	●
Kaffee	●	●	●	●	●	●	●	●	●
Bleichmittel (10%)	●	●	●	●	●	●	●	●	●
Dieselkraftstoff	●	●	●	●	●	●	●	●	●
Kerosin	●	●	●	●	●	●	●	●	●
Cyclohexan	●	●	●	●	●	●	●	●	●
Chlor	●	●	●	●	●	●	●	●	●
Chlorbenzol	●	●	●	●	●	●	●	●	●
Chloropren	●	●	●	●	●	●	●	●	●
Chloroform	●	●	●	●	●	●	●	●	●
Acetylchlorid	●	●	●	●	●	●	●	●	●
Bariumchlorid	●	●	●	●	●	●	●	●	●
Kalziumchlorid (10%)	●	●	●	●	●	●	●	●	●
Ethylenchlorid	●	●	●	●	●	●	●	●	●
Kaliumchlorid	●	●	●	●	●	●	●	●	●
Kochsalz (10%)	●	●	●	●	●	●	●	●	●
Zinkchlorid	●	●	●	●	●	●	●	●	●
Eisenchlorid	●	●	●	●	●	●	●	●	●
Flugzeugtreibstoff (JP1 - JP5)	●	●	●	●	●	●	●	●	●
Flugzeugtreibstoff (JP6)	●	●	●	●	●	●	●	●	●
Waschmittel	●	●	●	●	●	●	●	●	●
Ethylendichlorid	●	●	●	●	●	●	●	●	●
Diesel	●	●	●	●	●	●	●	●	●

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Flüssigkeit	PU	POM	TPE	NBR	HNBR	EPDM	FKM	MVQ	PTFE
	Polyurethan	Acetalhaz	Thermoplastisches Elastomer	Nitrilgummi	Hydriertes Nitrilgummi	Ethylen Propylen	Fluorelastomer	Fluoroelastomer	Polytetrafluorethylen
Dymethylformamid	●	●	●	●	●	●	●	●	●
Kohlendioxid	●	●	●	●	●	●	●	●	●
Zellulose-Lösungsmittel	●	●	●	●	●	●	●	●	●
Testbenzin	●	●	●	●	●	●	●	●	●
Helium	●	●	●	●	●	●	●	●	●
Heptan	●	●	●	●	●	●	●	●	●
Hexan	●	●	●	●	●	●	●	●	●
Äthanol	●	●	●	●	●	●	●	●	●
Butylether	●	●	●	●	●	●	●	●	●
Ethylether	●	●	●	●	●	●	●	●	●
Petrolether	●	●	●	●	●	●	●	●	●
Etylendiamin	●	●	●	●	●	●	●	●	●
Ethylenglycol	●	●	●	●	●	●	●	●	●
Phenol	●	●	●	●	●	●	●	●	●
Bremsflüssigkeit	●	●	●	●	●	●	●	●	●
Formaldehyd (37%)	●	●	●	●	●	●	●	●	●
Freon 11	●	●	●	●	●	●	●	●	●
Freon 12	●	●	●	●	●	●	●	●	●
Freon 21	●	●	●	●	●	●	●	●	●
Freon 22	●	●	●	●	●	●	●	●	●
Freon 113	●	●	●	●	●	●	●	●	●
Freon 114	●	●	●	●	●	●	●	●	●
Furfuraldehyd	●	●	●	●	●	●	●	●	●
Erdgs	●	●	●	●	●	●	●	●	●
Flüssiggas (LGP)	●	●	●	●	●	●	●	●	●
Propangas	●	●	●	●	●	●	●	●	●
Dieselöl	●	●	●	●	●	●	●	●	●
Glycerin	●	●	●	●	●	●	●	●	●
Ethylenglycol	●	●	●	●	●	●	●	●	●
Glukoselösung	●	●	●	●	●	●	●	●	●
Mineralfette	●	●	●	●	●	●	●	●	●
Wasserstoffgas	●	●	●	●	●	●	●	●	●
Schwefelwasserstoff	●	●	●	●	●	●	●	●	●
Ammoniumhydroxid	●	●	●	●	●	●	●	●	●
Bariumhydroxid	●	●	●	●	●	●	●	●	●
Magnesiumhydroxid	●	●	●	●	●	●	●	●	●
Kaliumhydroxide	●	●	●	●	●	●	●	●	●
Natriumhydroxid	●	●	●	●	●	●	●	●	●
Natriumhypochlorit	●	●	●	●	●	●	●	●	●
Isobuten	●	●	●	●	●	●	●	●	●
Kerosin	●	●	●	●	●	●	●	●	●
SAE Motoröle	●	●	●	●	●	●	●	●	●
Milch	●	●	●	●	●	●	●	●	●
Quecksilber	●	●	●	●	●	●	●	●	●
Methan	●	●	●	●	●	●	●	●	●
Butanon (Methylethylketon MEK)	●	●	●	●	●	●	●	●	●
Naphtha (Rohbenzin)	●	●	●	●	●	●	●	●	●

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Flüssigkeit	**PU**	**POM**	**TPE**	**NBR**	**HNBR**	**EPDM**	**FKM**	**MVQ**	**PTFE**
Petroleum-Naphtha	●	●	●	●	●	●	●	●	●
Kaliumnitrat	●	●	●	●	●	●	●	●	●
Nitrobenzol	●	●	●	●	●	●	●	●	●
Nitromethan	●	●	●	●	●	●	●	●	●
Nitropropan	●	●	●	●	●	●	●	●	●
Pflanzenöle	●	●	●	●	●	●	●	●	●
Silikonöle	●	●	●	●	●	●	●	●	●
Öle ASTM 1	●	●	●	●	●	●	●	●	●
Öle ASTM 3	●	●	●	●	●	●	●	●	●
Heizöl	●	●	●	●	●	●	●	●	●
Olivenöl	●	●	●	●	●	●	●	●	●
Palmöl	●	●	●	●	●	●	●	●	●
Erdöl < 121° C	●	●	●	●	●	●	●	●	●
Erdöl > 121° C	●	●	●	●	●	●	●	●	●
Pinienöle	●	●	●	●	●	●	●	●	●
Hydrauliköle	●	●	●	●	●	●	●	●	●
Schmieröle	●	●	●	●	●	●	●	●	●
Mineralöle	●	●	●	●	●	●	●	●	●
Praffinöle	●	●	●	●	●	●	●	●	●
Motorenöle	●	●	●	●	●	●	●	●	●
Bremsflüssigkeiten	●	●	●	●	●	●	●	●	●
Getriebeöle ATF II	●	●	●	●	●	●	●	●	●
Getriebeöle ATF III	●	●	●	●	●	●	●	●	●
Getriebeöle ATF IV	●	●	●	●	●	●	●	●	●
SAE Öle	●	●	●	●	●	●	●	●	●
Ethylenoxid	●	●	●	●	●	●	●	●	●
Sauerstoff	●	●	●	●	●	●	●	●	●
Oktane	●	●	●	●	●	●	●	●	●
Oktanol	●	●	●	●	●	●	●	●	●
Ozon	●	●	●	●	●	●	●	●	●
Paraffin	●	●	●	●	●	●	●	●	●
Pentan	●	●	●	●	●	●	●	●	●
Pentanol (Amylalkohol)	●	●	●	●	●	●	●	●	●
Perchlorethylen	●	●	●	●	●	●	●	●	●
Propan	●	●	●	●	●	●	●	●	●
Propanol	●	●	●	●	●	●	●	●	●
Propylen	●	●	●	●	●	●	●	●	●
Pyridin	●	●	●	●	●	●	●	●	●
Saccharose	●	●	●	●	●	●	●	●	●
Wasserabweisendes Salz	●	●	●	●	●	●	●	●	●
Natrium	●	●	●	●	●	●	●	●	●
Fruchtsäfte	●	●	●	●	●	●	●	●	●
Aluminiumsuklfat	●	●	●	●	●	●	●	●	●
Kalziumsulfat	●	●	●	●	●	●	●	●	●
Kaliumsulfat	●	●	●	●	●	●	●	●	●
Terpentin	●	●	●	●	●	●	●	●	●

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Flüssigkeit	**PU**	**POM**	**TPE**	**NBR**	**HNBR**	**EPDM**	**FKM**	**MVQ**	**PTFE**
Tetrachlorethylen	🔴	🟢	🔴	🔴	🔴	🔴	🟢	🔴	🟢
Tetrachlorkohlenstoff	🔴	🟢	🔴	🔴	🔴	🔴	🟢	🔴	🟢
Tetrahydrofuran	🔴	🔴	🟡	🔴	🔴	🟡	🔴	🔴	🟢
Tolual	🔴	🔴	🔴	🔴	🔴	🔴	🟢	🔴	🟢
Trichlorethylen	🔴	🟡	🔴	🔴	🔴	🔴	🟢	🔴	🟢
Harnstoff (5%)	🔴	🟢	🔴	🟢	🟢	🟢	🟢	🟢	🟢
Dampf	🔴	🟢	🔴	🔴	🔴	🟡	🟢	🟡	🟢
Vaseline	🟡	🟢	🟢	🟢	🟢	🟡	🟢	🔴	🟢
Wasserglas	🔴	🟢	🟢	🟢	🟢	🟢	🟢	🔴	🟢
Wein	🔴	🟡	🟡	🟢	🟢	🟢	🟢	🟢	🟢
Xenon	🟢	🔴	🔴	🟢	🟢	🟢	🟢	🔴	🟢
Xylol	🔴	🟢	🟡	🔴	🔴	🔴	🟢	🔴	🟢

Alle Angaben ohne Gewähr.