## **LUTZE Technical Overview**

## Chemical Resistance of PVC, TPE and PUR Cable Jackets

Inorganic	Concentration	PVC	TPE	PUR
Alum	C.S.	+	+	
Aluminum salts	ec.	+	+	+
Ammonia, a	10 %	+	+	+
Ammonium acetate, a	ec.	+	+	
Ammonium carbonate, a	ec.	+	+	-
Ammonium chloride, a	ec.	+	+	+
Barium salts	ec.	+	+	+
Boric acid	100 %	+	+	0
Calcium chloride, a	C.S.	+	+	0
Calcium chloride, a	10 % and 40 %			+
Calcium nitrate, a	C.S.	+	+	
Chrome salts, a	C.S.	+	+	+
Potassium carbonate, a (potash)		+	+	
Potassium chlorate, a	C.S.	+	+	
Potassium chloride, a	C.S.	+	+	0
Calcium dichromate, a		+	+	-
Calcium iodide, a		+	+	
Calcium nitrate, a	C.S.	+	+	+
Potassium permanganate, a	0.3.	0	0	-
Potassium sulfate, a		+	+	+
Copper salts, a	C.S.	+	+	+
Magnesium salts, a	C.S.	+	+	O
Sodium carbonate, a (natron)	0.5.	+	+	0
Sodium bisulfate, a		+	+	O
Sodium chloride, a (common salt)		+	+	+
Sodium thiosulfate, a (fixing salt)		+	+	O
Nickel salts, a	0.0	+	+	+
Phosphoric acid	c.s. 50 %	+	+	-
Mercury	100 %	+	+	+
		+	+	
Mercury salts, a	c.s. 30 %	т	+	+
Nitric acid		-	-	-
Hydrochloric acid	concentrated	-	-	-
Sulfur	100 %	+	+	+
Sulfur dioxide	gaseous	+	+	0
Carbon disulfide		•	-	-
Hydrogen sulfide		+	+	-
Sea water		+	+	+
Silver salts, a	2.0/	+	+	+
Hydrogen peroxide, a	3 %	+	+	+
Zinc salts, a		+	+	-
Tin (II) chloride		+	+	
		EN / -		
Organic	Concentration	PVC	TPE	PUR
Ethyl alcohol	100 %	-	-	-
Formic acid	30 %	-	-	-
Benzine/Benzene			0	+
Succinic acid, a	C.S.	+	+	-
A sette setel	0.9.			-

Organic	Concentration	PVC	TPE	PUR
Ethyl alcohol	100 %	-	-	-
Formic acid	30 %	-	-	-
Benzine/Benzene		-	0	+
Succinic acid, a	C.S.	+	+	-
Acetic acid	20 %	0	0	0
Hydraulic oil		-	*	O*
Isopropyl alcohol	100 %	-	-	0
Kerosene			Ο	0
Machine oil		O*	O*	+*
Methyl alcohol, a	100 %	0	0	0
Mineral oil, depending on type (ASTM)			*	*
Oxalic acid, a	C.S.	+	+	
Paraffin oil			+	+
Plant oils and greases		O/+*	+*	+*
Cutting oil		O*	O/+*	+
Tartaric acids, a		+	+	
Citric acid		+	+	

**Legend**: ec. = each concentration

c.s. = cold saturated

a = aqueous

\* = depending on the additive in oil results may vary greatly

+ = resistant

O = conditionally resistant

- = unstable

**Disclaimer**: The information is to be used ONLY as a guide in selecting equipment for appropriate chemical compatibility. Before permanent installation, test the equipment with the chemicals and under the specific conditions of your application. LUTZE Inc. makes no guarantee or representation as to the completeness or accuracy thereof, and disclaims all liability for any loss or damage resulting from use or reliance upon any information, recommendations or suggestions contained herein.

