

AUTOFIREX® FIRE DETECTION TUBE R0406 7000100



TECHNICAL DATA SHEET TDS-DOC-AFX0011 Rev July2022



AutoFireX® Fire Detection Tube is a Linear Pneumatic Heat Detection tube specifically manufactured and designed for the use in fire suppression systems that responds to combination of heat and radiant energy that generally accompanies a fire. The pressurised Fire Detection tube when exposed to fire/radiating heat from fire, is designed to rupture due to flame impingement, at specific temperatures at any point throughout its length, thereby releasing the pressure and initiate the release of the suppressant from connected valve and operate any other pressure operated signalling device interfaced with the system. The AutoFireX® Detection Tube is used as a nonelectrical detection device.

Key Features

- ✓ Special Formulated material designed to function in Harsh and reactive environments.
- ✓ Formulation designed to prevent surface damage when exposed to or installed on Galvanised metal/equipment's.
- ✓ Special Formulation prevents gradual permeation of pressurising agent over period of time, adding to its 100% reliability.
- ✓ Non-Destructive Tested to withstand pressure max up to 140 Bar.
- ✓ UV Protected (Blue)
- ✓ Low moisture and water absorption ratios.
- ✓ Chemically resistive to most common chemicals
- ✓ Compatible with all Inert, Low pressure and High-Pressure Agents
- ✓ Utilised and installed as combination linear heat detector and unit activation device to cause actuation of Fire Suppression Systems.

Typical Material Specification

Composition: Special Formulated, inert, nonconductive blend of Modified Polymer Material
Dimensions: Red:6mm x 4mm (OD x ID)
Part Number 7000100
Rating: 138°C @15 Bar
Activation temperature: Approx. (110°C to 138°C) *
Standard Requirements: BS ISO: 7628: 2010, BS5409 CE, UL

*NOTE: Detection time and temperature will be affected by factors such as internal pressure, flame intensity and rate of rise temperature changes

Physical Properties 4 x 6mm Red FDT	
Density	1.025Kg/m ³
Moisture absorption 23°C - 50%RH	0.70%
Water absorption, immersion at 23°C	1.50%

Thermal Properties	
Thermal Decomposition	175°C
Heat Deflection Temperature	45°C

Electrical Properties	
Dielectric Strength (DIN53481)	Dry 35kV/mm
Volume resistivity	10 ¹¹ Ohm-m
Surface resistivity	10 ¹² Ohm

Verification Test	Min	Typical	Max
Operating Pressure Red	7 Bar	13-20 Bar	Bursts 140 Bar
Operating Temperature Red	-30°C	+25°C	+75°C
Storage Temp.	+5°C	+25°C	+35°C
Temp. Cycle Limits	-	2°C/min	10°C/min
Operating Humidity	0 Rh	40-60 Rh	100 Rh condensing
Detection Response Time Red	4-5 secs 450°C @10- 12Bar	6-8 secs 138°C @13-15 Bar	10 secs 300°C @12Bar
Bending Radius	42mm	30mm	24mm
Wall Thickness	0.9mm	0.9mm	1.09mm
Tolerance	+/- 0.1mm	+/- 0.1mm	-

APPROVALS & LISTINGS: UL Recognised Component



UL Recognised Component Marked Under UL 521 Certification of Heat-Automatic Fire Detectors Component (Tubing)



Quality Management System: ISO 9001:2015 Certified



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PHYSICAL PROPERTIES

Part Number	AFX-7000100			
Property	Standard	Units	State	Value
Density	ISO1183	Kg/m ³	NA	1.025
Moisture absorption 23°C - 50%RH	ISO62	%	NA	0.70
Water absorption, immersion at 23°C	ISO62	%	NA	1.5
Bending Radius	BS ISO 7328:2010	mm	Dry	30mm (max)
Wall Thickness	BS ISO 7328:2010	Mm	Dry	1.5mm min (+/-0.15%)
Tolerance	BS ISO 7328:2010	%	Dry	+/- 0.12

Mechanical Properties

Property	Standard	UOM	State	Value
Tensile E-modulus	ISO527	Mpa	Dry	NA
			Cond	450
Tensile Strength at break	ISO527	Mpa	Dry	NA
			Cond	35
Elongation at break	ISO527	%	Dry	NA
			Cond	>50
Tensile Strength at Yield	ISO527	Mpa	Dry	NA
			Cond	30
Elongation at yield	ISO527	%	Dry	NA
			Cond	20
Charpy Notched Impacy Strength 23°C	ISO179/1 eA	KJ/m ²	Dry	NA
			Cond	No Break
Charpy Notched Impacy Strength -30°C	ISO179/1 eA	KJ/m ²	Dry	NA
			Cond	6

The FDT has been internally Hydrostatic tested for and following values have been established:

Hydrostatic Burst Pressure:

Minimum Burst Pressure: 75 Bar

Typical Burst Pressure: up to 140 Bar



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COMPATIBILITY WITH COMMON CHEMICALS & CHEMICAL RESISTANCE DATA FOR AUTOFIREX FIRE DETECTION TUBE:

Chemical	Chemical Formula	@ 20°C		
Acetaldehyde 40% aq sol	C ₂ H ₄ O	G	Animal Oils	—
Acetaldehyde 100% aq sol	C ₂ H ₄ O	G	Aqua Regia concentrated	HNO ₃ +3HCl
Acetic Acid 10% aq sol	C ₂ H ₄ O ₂	L	Aqua Regia dilute	HNO ₃ +3HCl
Acetic Acid 25%	C ₂ H ₄ O ₂	L	Arcton 113 (Refrigerant)	C ₂ Cl ₃ F ₃
Acetic Acid 60% aq sol	C ₂ H ₄ O ₂	P	Arcton 12 (Refrigerant)	CCl ₂ F ₂
Acetic Acid glacial	C ₂ H ₄ O ₂	L	Arcton 22 (Refrigerant)	CHClF ₂
Acetic Anhydride	C ₄ H ₆ O ₃	L	Arsenic Acid concentrated	H ₃ AsO ₄
Acetone 100%	C ₃ H ₆ O	G	Barium Carbonate	BaCO ₃
Acetone traces	C ₃ H ₆ O	G	Barium Chloride	BaCl ₂
Acetylene Gas	C ₂ H ₂	G	Barium Hydroxide	Ba(OH) ₂
Acrylonitrile	CH ₂ CHCN	G	Barium Sulphate	BaS
Alcohol Allyl	C ₃ H ₆ O	L	Barium Sulphide	BaS
Alcohol Amyl	C ₅ H ₁₁ OH	G	Beer	—
Allyl Chloride	C ₃ H ₅ Cl	L	Benzaldehyde 100%	C ₇ H ₆ O
Alum	KAl(SO ₄) ₂ ·12H ₂ O	G	Benzaldehyde traces	C ₇ H ₆ O
Aluminium Oxolate	AlF ₃	G	Benzene	C ₆ H ₆
Aluminium Acetate	AlF ₃	G	Benzoic Acid	C ₇ H ₆ O ₂
Aluminium Chloride	AlCl ₃	G	Benzyl Alcohol	C ₇ H ₈ O
Aluminium Fluoride	AlCl ₃	G	Benzyl Chloride	C ₇ H ₇ Cl
Aluminium Hydroxide	Al(OH) ₃	G	Bisulfitic Detergents	—
Aluminium Nitrate	Al(NO ₃) ₃	G	Bleach	—
Aluminium Oxychloride	Al ₂ O ₃	G	Borax	—
Aluminium Potassium	Al ₂ O ₃	P	Boric Acid	H ₃ BO ₃
Aluminium Sulphate	Al ₂ (SO ₄) ₃	G	Brine	—
Ammonia	NH ₃	G	Bromine - 100% dry gas	Br ₂
Ammonia 0.88S.G.aqsol	NH ₃	G	Bromine - liquid	Br ₂
Ammonia anhydrous gas	NH ₃	G	Bromine traces - gas	Br ₂
Ammonia anhydrous liq	NH ₃	G	Bromobenzene	C ₆ H ₅ Br
Ammonium	NH ₄	G	Butadiene	C ₄ H ₆
Ammonium Bicarbonate	NH ₄ HCO ₃	G	Butane Gas	C ₄ H ₁₀
Ammonium Bifluoride	NH ₄ HF ₂	G	Butyl Acetate	C ₆ H ₁₂ O ₂
Ammonium Carbonate	(NH ₄) ₂ CO ₃	G	Butyl Alcohol (Butanol)	C ₇ H ₁₂ O ₂
Ammonium Chloride	(NH ₄)Cl	G	Butyric Acid 20% aq sol	C ₄ H ₈ O ₂
Ammonium Fluoride 20%	(NH ₄)F	G	Calcium Arsenate	Ca ₃ As ₂ O ₈
Ammonium Hydrosulfide	H ₅ NS	G	Calcium Bisulphite	CaH ₂ O ₆ S ₂
Ammonium Hydroxide	NH ₃ + H ₂ O	G	Calcium Carbonate	CaCO ₃
Ammonium Metaphosphate	C ₇ H ₇ NO ₂	G	Calcium Chloride aq sol	CaCl ₂
Ammonium Nitrate	(NH ₄)NO ₃	G	Calcium Hydroxide	Ca(OH) ₂
Ammonium Oxalate	C ₂ H ₈ N ₂ O ₄	G	Calcium Hypochlorite Dilute	Ca(ClO) ₂
Ammonium Persulphate	(NH ₄) ₂ S ₂ O ₈	P	Calcium Nitrate	Ca(NO ₃) ₂
Ammonium Phosphate	(NH ₄) ₃ PO ₄	G	Calcium Sulphate	CaSO ₄
Ammonium Sulphate	(NH ₄) ₂ SO ₄	G	Carbolic Acid (phenol)	C ₆ H ₆ O
Ammonium Sulphide	(NH ₄) ₂ S	G	Carbon Dioxide (Dry)	CO ₂
Ammonium Thiocyanate	NH ₄ SCN	G	Carbon Dioxide (Wet)	CO ₂
Amyl Acetate	C ₇ H ₁₄ O ₂	G	Carbon Disulphide	CS ₂
Amyl Alcohol	C ₅ H ₁₁ OH	G	Carbon Monoxide	CO
Amyl Chloride	C ₅ H ₁₁ Cl	F	Carbon Tetrachloride	CCl ₄
Anethole	C ₁₀ H ₁₂ O	G	Carbonic Acid	H ₂ CO ₃
Aniline	C ₆ H ₇ N	G	Castor Oil	—
Aniline Hydrochloride	C ₆ H ₈ ClN	P	Cetyl Alcohol	C ₁₆ H ₃₄ O
Aniline Sulphate	C ₆ H ₃ ClN ₆	L-P	Chloracetic Acid	C ₂ H ₃ ClO ₂
			Chloric Acid	HClO ₃

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Chlorine 10% dry gas	Cl ₂	L-P	Dry Sulfuric Anhydride	—	L
Chlorine 10% moist gas	Cl ₂	L-P	E85	—	P
Chlorine 100% dry gas	Cl ₂	L-P	Ethane	C ₂ H ₆	P
Chlorine water 2 % sol	Cl ₂ x H ₂ O	G	Ethyl Acetate	C ₄ H ₈ O ₂	G
Chlorine water sat sol	Cl ₂ x H ₂ O	L-P	Ethyl Alcohol	C ₂ H ₆ O	G-L
Chlorobenzene	C ₆ H ₅ Cl	P	Ethyl Alcohol (Ethanol)	C ₂ H ₆ O	L-P
Chloroform	CHCl ₃	G	Ethyl Alcohol 20% aq sol	C ₂ H ₆ O	G-L
Chlorosulphonic Acid	ClHSO ₃	P	Ethyl Butyrate	C ₉ H ₁₀ O ₂	G
Chrome Alum	CClF ₃	G-L	Ethyl Chloride	C ₂ H ₅ Cl	G
Chromic Acid 5%	H ₂ CrO ₄	P	Ethyl Ether	C ₅ H ₇ NO ₂	G
Chromic Acid 10%	H ₂ CrO ₄	P	Ethyl Sulphate	C ₇ H ₅ O ₄ S	G
Chromic Acid 30%	H ₂ CrO ₄	P	Ethylene Chlorhydrin	C ₂ H ₅ ClO	P
Chromic Acid 50%	H ₂ CrO ₄	P	Ethylene Chloride	C ₂ H ₄ Cl ₂	G
Cider	—	G	Ethylene Dibromide	C ₂ H ₄ Br ₂	G
Citric Acid	C ₆ H ₈ O ₇	G	Ethylene Dichloride	C ₂ H ₄ Cl ₂	G
Coal Gas	—	G	Ethylene Glycol	C ₂ H ₆ O ₂	G
Coal Tar	—	G	Ethylene Glycol 30%	C ₂ H ₆ O ₂	L
Concentrated Hydrochloric Acid	HCl	P	Ethylene Oxide	C ₂ H ₄ O	G
Concentrated Potassium	—	G	Fatty Acids	—	G
Concentrated Soda	—	G	Ferric Chloride	FeCl ₃	G
Copper Chloride	CuCl	P	Ferric Nitrate	Fe(NO ₃) ₃	G
Copper Cyanide	CuCN	P	Ferric Sulphate	Fe ₂ (SO ₄) ₃	G
Copper Fluoride	CuF	F-L	Ferrous Chloride	FeCl ₂	P
Copper Nitrate	Cu(NO ₃) ₂	P	Ferrous Sulphate	FeSO ₄	P
Copper Sulphate Solution	CuSO ₄	L-P	Flavours and Essences	—	G
Creosote	CH ₈	P	Fluorine	F ₂	P
Cresols	C ₇ H ₈ O	P	Fluosilic Acid 40% aq sol	H ₂ SiF ₆	P
Cresylic Acids	CH ₃ C ₉ H ₄ OH	P	Formaldehyde 40%aq sol	CH ₂ O	G
Crude Oil	—	G	Formic Acid 3% aq sol	CH ₂ O ₂	P
Cyclohexane	C ₆ H ₁₂	G	Formic Acid 25% aq sol	CH ₂ O ₂	P
Cyclohexanol	C ₆ H ₁₂ O	G	Formic Acid 50% aq sol	CH ₂ O ₂	P
Cyclohexanone	C ₆ H ₁₀ O	G	Formic Acid 100% aq sol	CH ₂ O ₂	P
DDT Preparation	C ₁₄ H ₉ Cl ₅	G	French Polish	—	G-L
Decalin	C ₁₀ H ₁₈	G	Freon 11 (Refrigerant)	CCl ₃ F	P
Detergent (synthetic) all	C ₁₅ H ₁₀ N ₂ O ₂	G	Freon 113 (Refrigerant)	C ₂ Cl ₃ F ₃	G
Detergents Alkaline	C ₁₅ H ₁₀ N ₂ O ₂	G	Freon 114 (Refrigerant)	C ₂ Cl ₂ F ₄	G
Diacetone Alcohol	C ₆ H ₁₂ O ₂	G	Freon 12 (Refrigerant)	CCl ₂ F ₂	G
Diammonium Phosphate	H ₉ N ₂ O ₄ P	G	Freon 22 (Refrigerant)	CHClF ₂	G
Dibutyl Phthalate	C ₁₆ Br ₂₂ O ₄	G	Fruit Pulp/Juices	—	G
Dichlorethylene	C ₈ H ₁₉ N	L	Fuel oil	—	G
Dichloro Methane	CH ₂ Cl ₂	L	Furfural	C ₅ H ₄ O ₂	G
Dichloroethane	C ₄ H ₄ Cl ₂	G	Gallic Acid	C ₇ H ₆ O ₅	G
Diesel Oil	—	G	Gas Oil	—	G
Diethyl Ether	C ₄ H ₁₁ NO ₂	G	Glucose	C ₆ H ₁₂ O ₆	G
Diethylene Glycol	C ₄ H ₁₀ O ₃	G	Glycerine	C ₃ H ₅ (OH) ₃	G
Diisocyanate	C ₆ H ₁₀	G	Glycerol	C ₃ H ₈ O ₃	G
Dimethyl Formanide	C ₃ D ₇ NO	G	Grape Sugar	—	G
Dimethyl Sulphoxide	C ₂ H ₆ OS	G	Greases General	—	G
Diocetyl Phosphate	C ₁₆ H ₃₅ O ₄ P	G	Greases Mineral	—	G
Diocetyl Phthalate	C ₂₄ H ₃₈ O ₄	G	Ground Nut Oil	—	G
Dioxane	C ₄ H ₈ O ₂	G	Heptane	C ₇ H ₁₆	G
Dodecyl Alcohol	C ₁₂ H ₂₆ O	G	Hexane	C ₆ H ₁₄	G

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Methylated Spirit	-	L	Hexyl Alcohol	C ₆ H ₁₄ O	G
Methylene Chloride	CH ₂ Cl ₂	P	Hydro Fluosilicic Acid	N ₂ H ₆ O	P
Milk	—	G	Hydrobromic Acid	HBr	P
Mineral Oils	—	G	Hydrochloric acid 10% aq sol	HCl	P
Mustard	—	G	Hydrochloric acid concentrated	HCl	P
Naptha	—	G	Hydrocyanic Acid	HCN	F
Napthalene	—	G	Hydrogen	H ₂	G
Naptha (Light Oil)	—	G	Hydrogen Chloride	HCl	P
Natural Gas	—	G	Hydrogen Fluoride	HF	P
Nickel Chloride	NiCl ₂	G	Hydrogen Peroxide 3% (10 vol)	H ₂ O ₂	L-P
Nickel Nitrate	Ni(NO ₃) ₂	G	Hydrogen Peroxide 12% (40 vol)	H ₂ O ₂	L-P
Nickel Sulphate/salts	NiSO ₄	G	Hydrogen Peroxide 30% (100	H ₂ O ₂	P
Nitric Acid 5% aq sol	HNO ₃	P	Hydrogen Peroxide 90% +	H ₂ O ₂	P
Nitric Acid 10% aq sol	HNO ₃	P	Hydrogen Phosphide	H ₃ P	
Nitric Acid 25% aq sol	HNO ₃	P	Hydrogen Sulphide < 5%	H ₂ S	G
Nitric Acid 50% aq sol	HNO ₃	P	Industrial Methylated spirit	—	G-L
Nitric Acid 70% aq sol	HNO ₃	P	Iso Propyl Alcohol	CH ₃	G
Nitric Acid 95% aq sol	HNO ₃	P	Isobutyl Alcohol	C ₄ H ₁₀ O	G
Nitrobenzene	C ₆ H ₅ NO ₂	L	Isocyanate	NCO	G
Nitrogen	N ₂	G	Isopropyl Alcohol	C ₃ H ₈ O	L
Nonyl Alcohol	C ₉ H ₂₀ O	G	Isopropyl Alcohol	C ₃ H ₈ O	G
Octane	C ₈ H ₁₈	G	Jet Fuel	—	G
Octyl Alcohol	C ₈ H ₁₈	G	Kerosene (Paraffin Oil)	—	G
Oil, ASTM Oil No 1	—	G	Lactic Acid 10% aq sol	C ₃ H ₆ O ₃	L
Oil, Hydraulic - petroleum base	—	G	Lactic Acid 100% aq sol	C ₃ H ₆ O ₃	L-P
Oil, Hydraulic - synthetic base	—	G	Lanoline	—	G
Oil, Mineral	—	G	Lauryl Alcohol	C ₁₂ H ₂₆ O	G
Oil, Vegetable	—	G	Lead Acetate	Pb(C ₂ H ₃ O ₂) ₂	G
Oleic Acid	C ₁₈ H ₃₄ O ₂	G	Lead Arsenate	As ₄ O ₁₆ Pb ₃	G
Ortho-dichlorobenzene	C ₆ H ₄ Cl ₂	G	Lead Nitrate	Pb(NO ₃) ₂	G
Oxalic Acid 10% aq sol	C ₂ H ₂ O ₄ x 2H ₂ O	G	Lead Tetraethyl	C ₈ H ₂₀ Pb	G
Oxygen	O ₂	G	Lightning Gas - Town Gas	—	G
Ozone	O ₃	P	Linseed Cake	—	G
Paradichlorobenzene	C ₆ H ₄ Cl ₂	L	Linseed Oil	—	G
Paraformaldehyde	OH(CH ₂ O) _n (n=8-100)	G	Magnesium Carbonate	MgCO ₃	G
Perchloroethylene	C ₂ Cl ₄	L	Magnesium Chloride	MgCl ₂	G
Petrol	—	G	Magnesium Hydroxide	Mg(OH) ₂	G
Petrol / Benzene mix (A)	—	G	Magnesium Nitrate	Mg(NO ₃) ₂	G
Petroleum Ether (A)	—	G	Magnesium Sulphate	MgSO ₄	G
Phenol	C ₆ H ₆ O	P	Mercuric Chloride	HgCl ₂	G
Phenols/Carbolic acid	—	P	Mercuric Cyanide	Hg(CN) ₂	G
Phenylcarbinol	C ₇ H ₈ O	P	Mercurous Nitrate	Hg(NO ₃) ₂	G
Phosphates	—	G	Mercury	Hg	G
Phosphoric Acid 20% aq sol	H ₃ PO ₄	P	Methane	CH ₄	G
Phosphoric Acid 30% aq sol	H ₃ PO ₄	P	Methyl Acetate	C ₃ H ₆ O ₂	G
Phosphoric Acid 50% aq sol	H ₃ PO ₄	P	Methyl Alcohol 10% aq sol	CH ₄ O	G
Phosphoric Acid 95% aq sol	H ₃ PO ₄	P	Methyl Amyl	—	G
Phosphoric Anhydride	O ₁₀ P ₄	P	Methyl Bromide	CH ₃ Br	G
Phosphorus	H ₃ PO ₄	P	Methyl Chloride	CH ₃ Cl	G
Phosphorus Pentoxide	O ₁₀ P ₄	P	Methyl Ethyl Ketone	C ₄ H ₈ O	G
Phosphorus Trichloride	PCl ₃	P	Methyl Isobutyl Ketone	C ₆ H ₁₂ O	G
Picric Acid 1% aq sol	C ₆ H ₃ N ₃ O ₇	L	Methyl Sulphate	CH ₄ SO ₄	G

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Polyester Emulsions	—	G
Polystyrene Emulsions	—	G
Potassium Bromide	KBr	G
Potassium Bromide 10% aq sol	KBr	G
Potassium Carbonate	K ₂ CO ₃	G
Potassium Chlorate	KClO ₃	G-L
Potassium Chlorate 5% aq sol	KClO ₃	G
Potassium Chloride	KCl	G
Potassium Hydroxide 1 % aq sol	KHO	G
Potassium Hydroxide 10 % aq	KHO	G
Potassium Hydroxide	KHO	G-L
Potassium Nitrate 10 % aq sol	KNO ₃	G
Potassium Permanganate	KMnO ₄	P
Potassium Sulphate 10 % aq sol	K ₂ SO ₄	G
Propane	C ₃ H ₈	G
Propargyl Alcohol	C ₃ H ₄ O	G
Pure Acetic Acid	C ₂ H ₄ O ₂	P
Pyridine	C ₅ H ₅ N	L
Salicylic Acid	C ₇ H ₆ O ₃	G
Sea Water	—	G
Silver Acetate	C ₂ H ₃ AgO ₂	G
Silver Cyanide	CAgN	G
Silver Nitrate	AgNO ₃	G
Soap sol. 10 % aq sol	—	G
Soda water	—	G
Sodium Bicarbonate	NaHCO ₃	G
Sodium Bisulphate	NaHSO ₄	G
Sodium Bromide	NaBr	G
Sodium Bromide 10% aq sol	NaBr	
Sodium Carbonate	Na ₂ CO ₃	G
Sodium Carbonate 10% aq sol	Na ₂ CO ₃	G
Sodium Chlorate	NaClO ₃	L
Sodium Chloride	NaCl	G
Sodium Hydroxide 1% aq sol	NaOH	G
Sodium Hydroxide 10% aq sol	NaOH	G
Sodium Hydroxide 40% aq sol	NaOH	G
Sodium Hydroxide concentrated	NaOH	P
Sodium Hypochlorite 15%	NaClO	P
Sodium Hypochlorite 30%	NaClO	P
Sodium Nitrate 10% aq sol	NaNO ₃	G
Sodium Nitrite	NaNO ₂	P
Sodium Perborate	NaBO ₃ ·nH ₂ O	L-P
Sodium Phosphate	Na ₃ PO ₄	G
Sodium Phosphate 10% aq sol	Na ₃ PO ₄	G
Sodium Silicate	Na ₂ SiO ₃	G
Sodium Sulphate	Na ₂ SO ₄	G
Sodium Sulphate 10% aq sol	Na ₂ SO ₅	G
Sodium Sulphide 25% aq sol	Na ₂ S	G-L
Sodium Sulphite	Na ₂ SO ₃	G
Sodium Sulphite 10% aq sol	Na ₂ SO ₄	G
Sodium Thiosulphate	Na ₂ S ₂ O ₃	G

Solvent Naptha	—	G
Starch	—	G
Steam	H ₂ O	P
Stearic Acid	C ₁₈ H ₃₆ O ₂	G
Stearin (also Stearine)	C ₅₇ H ₁₁₀ O	G
Styrene	C ₈ H ₈	G
Sucrose	—	G
Sulphur Colloidal	S	G
Sulphuric Acid 10% aq sol	H ₂ SO ₄	L
Sulphuric Acid 95% aq sol	H ₂ SO ₄	P
Sulphuric Acid 98% aq sol	H ₂ SO ₄	P
Sulphuric Acid fuming	H ₂ SO ₄	P
Tallow	—	G
Tartaric Acid 10% aq sol	C ₄ H ₆ O ₆	G
Tetra Ethyl Lead	C ₈ H ₂₀ Pb	G
Tetrahydrofuran	C ₄ H ₈ O	G
Tetralin	C ₁₀ H ₁₂	G
Toluene	C ₇ H ₈	G
Transformer Oil	—	G
Tributyl Phosphate	C ₁₇ H ₂₇ O ₄ P	G
Trichloroethane	C ₂ H ₃ Cl ₃	L
Trichloroethylene	C ₂ HCl ₃	L
Tricresyl Phosphate	C ₇ H ₁₅ NO ₂	G
Trisodium Phosphate	Na ₃ PO ₄	G
Turpentine	—	G
Turpent Petrol	—	G
Turps Substitute	—	G
Unleaded Gas	—	G
Urea - 20% aq sol	CH ₄ N ₂ O	G
Urea Formaldehyde Sol	CH ₄ N ₂ O	G
Uric Acid (dilute)	C ₅ H ₄ N ₄ O ₃	G
Vegetable Oils	—	G
Vinegar	C ₂ H ₄ O ₂	G
Water	H ₂ O	G
White Spirit	—	G
Wines and Spirits	—	G-L
Xylene	C ₈ H ₁₀	G
Zinc Chloride 10% aq sol	ZnCl ₂	G

G = Good Resistance
 F - Fair Resistance
 L - Limited Resistance
 P = Poor Resistance

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