



## CHEMICAL RESISTANCE

Page : 1 / 4  
Revision : 001  
Rev. Date : May 2014

### 4MID<sup>®</sup> Polyamide (PA)

Chemical Agent	Concentration (%)	Temperature (°C)	Resistance
Acetaldehyde	40	23	1
Acetic Acid	5	23	2
Acetic Acid	10	23	1
Acetic Acid	25	23	0
Acetic Acid	25	60	0
Acetic Acid	50	23	0
Acetic Acid	80	23	0
Acetic Acid	95	23	0
Acetone	100	23	2
Acetone	100	50	2
Acetylene	100	23	2
Acrylic Acid	100	60	0
Alkyl Alcohol	100	23	1
Alkyl Benzene	100	23	2
Alkyl Chloride	100	23	-
Alkyl Chloride	100	60	-
Amine	100	23	2
Amino Acid	100	23	2
Ammonia	25	23	2
Ammonia	100	23	2
Ammonia	100	60	1
Ammonium Chloride	25	23	2
Aniline	100	23	1
Argon	100	23	2
Benzene	100	60	2
Benzene	100	23	2
Benzoic Acid	20	23	1
Benzyl Alcohol	100	23	1
Benzylidene Aldehyde	100	23	0
Biphenyl	100	23	-
Bitumen	100	23	2
Boric Acid	10	23	1
Boron Trifluoride	100	23	0
Brake Fluid	100	23	2
Bromine	100	23	0
Bromochloromethane	100	23	2
Butane	50	23	2
Butanediol	100	23	2
Butanol	100	23	2
Butyl Acetate	100	23	2
Butyl Phthalate	100	23	2
Butyric Acid	20	23	1
Calcium Chloride	20	23	0
Calcium Hydroxide	100	23	2
Carbon Dioxide	100	23	2
Carbon Disulphide	100	23	2
Carbon Monoxide	100	23	2
Caustic Soda	30	23	2

2 – Good Resistance

1 – Limited Resistance

0 – Poor Resistance



## CHEMICAL RESISTANCE

Page : 2 / 4  
Revision : 001  
Rev. Date : May 2014

### 4MID<sup>®</sup> Polyamide (PA)

Chemical Agent	Concentration (%)	Temperature (°C)	Resistance
Caustic Soda	30	60	0
Caustic Soda	50	23	2
Chlorine	100	23	0
Chloroacetic Acid	10	23	0
Chlorobenzene	100	23	2
Chloroform	100	23	0
Chloromethane	100	23	0
Chlorosulphonic Acid	50	23	0
Chlorotrifluoroethane	100	23	2
Chromic Acid	3	23	0
Chromic Acid	10	23	0
Chromic Acid	50	23	0
Citric Acid	10	23	2
Cleaning Agent (Acidic)	100	23	1
Cleaning Agent (General)	100	23	2
Cresol	100	23	0
Cyclohexanol	100	23	1
Decalin	100	23	2
Dibutyl Ether	100	23	-
Dibutyl Phthalate	100	23	2
Dichlorobenzene	100	23	2
Dichloroethane	100	23	2
Diesel	100	23	2
Diethyl Ether	100	23	2
Diisopropyl Ether	100	23	2
Dimethyl Ether	100	23	2
Dimethyl Sulphate	100	23	-
Ethane	100	23	2
Ethanol	40	23	2
Ethanol	100	23	1
Ethanol	100	60	1
Ethyl Acetate	100	23	2
Ethyl Chloride	100	23	2
Ethylene	100	23	2
Ethylene Chloride	100	23	2
Ethylene Chlorohydrine	100	23	0
Ethylene Glycol	100	23	2
Ethylene Oxide	100	23	1
Fats	100	23	2
Fluorine	100	23	0
Formaldehyde	40	23	2
Formaldehyde	100	23	2
Formic Acid	10	23	0
Formic Acid	80	23	0
Formic Acid	80	60	0
Gear Oil	100	100	2
Glycerol	100	23	2
Glycol	50	100	1

2 - Good Resistance

1 - Limited Resistance

0 - Poor Resistance



## CHEMICAL RESISTANCE

Page : 3 / 4  
Revision : 001  
Rev. Date : May 2014

### 4MID<sup>®</sup> Polyamide (PA)

Chemical Agent	Concentration (%)	Temperature (°C)	Resistance
Glycol	100	23	2
Heating Oil	100	23	2
Helium	100	23	2
Helium	100	60	2
Heptane	100	23	2
Hexachlorobenzene	100	60	0
Hexane	100	23	2
Hydraulic Fluid	100	80	2
Hydrochloric Acid	5	23	0
Hydrochloric Acid	20	23	0
Hydrofluoric Acid	50	23	0
Hydrogen	100	23	2
Hydrogen Chloride	100	23	0
Hydrogen Peroxide	30	23	0
Hydrogen Sulphide	100	23	0
Isopropyl Alcohol	100	23	2
Isopropyl Alcohol	100	60	2
Kerosene	100	23	2
Ketones	100	23	1
Lactic Acid	10	23	2
Lithium Salts	10	23	0
Lubricating Oil	100	23	2
Lubricating Oil	100	23	2
Magnesium Hydroxide	100	23	2
Magnesium Salts	5	23	2
Magnesium Sulphate	10	23	1
Manganese Salts	10	23	1
Mercury	100	23	2
Methane	100	23	2
Methanol	100	23	2
Methyl Chloride	100	23	2
Methyl Formate	100	23	2
Methylamine	100	23	2
Methylethylketone	100	23	2
Mineral Oil	100	23	2
Naphthalene	100	23	2
Natural Gas	100	23	2
Nitric Acid	5	23	0
Nitric Acid	20	23	0
Nitrobenzene	100	23	1
Octane	100	23	2
Octene	100	23	2
Oxalic Acid	10	23	1
Ozone	100	23	0
Pentanol	100	23	-
Petroleum	100	23	2
Petroleum	100	60	2
Phenol	100	23	0

2 – Good Resistance

1 – Limited Resistance

0 – Poor Resistance



## CHEMICAL RESISTANCE

Page : 4 / 4  
Revision : 001  
Rev. Date : May 2014

### 4MID<sup>®</sup> Polyamide (PA)

Chemical Agent	Concentration (%)	Temperature (°C)	Resistance
Phenylethanol	100	23	1
Phthalic Acid	100	23	1
Potassium Bromide	5	23	1
Potassium Chloride	5	23	2
Potassium Dichromate	10	23	1
Potassium Hydroxide	50	23	1
Potassium Nitrate	5	23	2
Potassium Permanganate	3	23	0
Potassium Sulphate	100	23	2
Propane	100	23	2
Propionic Acid	50	23	0
Propionic Acid	100	23	0
Refridgerator Oil	100	23	2
Silicone Oil	100	23	2
Sodium Bicarbonate	15	23	2
Sodium Carbonate	5	23	2
Sodium Chlorate	10	23	2
Sodium Chloride	5	23	2
Sodium Hydroxide	10	23	2
Sodium Hydroxide	10	90	0
Sodium Hypochlorite	20	23	0
Sodium Hypochlorite	20	60	0
Steam	100	100	1
Stearic Acid	100	23	2
Stearic Acid	100	60	-
Styrene	100	23	2
Sulphur	100	23	2
Sulphur Dioxide	100	23	1
Sulphuric Acid	5	23	0
Sulphuric Acid	60	23	0
Sulphuric Acid	96	23	0
Tetrahydrofuran	100	23	2
Tetrahydronaphthaline	100	23	-
Toluene	100	23	2
Trichloroethane	100	23	2
Trichloroethylene	100	23	1
Trichloromethane	100	23	1
Turpentine Oil	100	23	2
Urea	5	23	2
Urea	25	23	2
Uric Acid	10	23	2
Vinyl Acetate	100	23	-
Water	100	23	2
Water	100	60	2
Xylene	100	100	2
Zinc Chloride	10	23	1
Zinc Chloride	10	60	0
Zinc Chloride	50	23	0

2 – Good Resistance

1 – Limited Resistance

0 – Poor Resistance