

# CORROSION RESISTANT FAN



**TABLE FOR COMPATIBILITY WITH CHEMICAL AGENTS...P2-9**  
**MOTOR CONNECTION DIAGRAMS.....P10**

# 1 Resistant - 2 Partially Resistant - 3 NOT Resistant

\*\*\*The above data are not binding\*\*\*

| CHEMICAL AGENTS                             | Conc. %        | Temp. (°C) | PVC | PE | PP | CHEMICAL AGENTS                    | Conc. % | Temp. (°C) | PVC | PE | PP |
|---------------------------------------------|----------------|------------|-----|----|----|------------------------------------|---------|------------|-----|----|----|
| <b>Acetaldehyde</b><br>-water base solution | 100            | 25         | 3   | 1  | 2  | <b>...Ammonia</b><br>-Dry Gas      | 100     | 25         | 1   | 1  | 1  |
|                                             |                | 60         | 3   | 2  | -  |                                    |         | 60         | 1   | 1  | 1  |
|                                             |                | 100        | -   | -  | -  |                                    |         | 100        | -   | -  | -  |
|                                             | 40             | 25         | 3   | 1  | 1  | -Liquid                            | 100     | 25         | 2   | 1  | 1  |
|                                             |                | 60         | 3   | 2  | 2  |                                    |         | 60         | 3   | 1  | -  |
|                                             |                | 100        | -   | -  | -  |                                    |         | 100        | -   | -  | -  |
| <b>Acetic Acid</b>                          | s25            | 25         | 1   | 1  | 1  | <b>Ammonium</b><br>-Acetate        | sat     | 25         | -   | 1  | 1  |
|                                             |                | 60         | 2   | 1  | 1  |                                    |         | 60         | 2   | 1  | 1  |
|                                             |                | 100        | -   | -  | 1  |                                    |         | 100        | -   | -  | -  |
|                                             | 30             | 25         | 1   | 1  | 1  | -Carbonate                         | all     | 25         | 1   | 1  | 1  |
|                                             |                | 60         | 2   | 1  | 1  |                                    |         | 60         | 2   | 1  | 1  |
|                                             |                | 100        | -   | -  | 1  |                                    |         | 100        | -   | -  | -  |
|                                             | 60             | 25         | 1   | 1  | 1  | -Chloride                          | sat     | 25         | 1   | 1  | 1  |
|                                             |                | 60         | 2   | 1  | 1  |                                    |         | 60         | 1   | 1  | 1  |
|                                             |                | 100        | -   | -  | 2  |                                    |         | 100        | -   | -  | 2  |
|                                             | 80             | 25         | 1   | 2  | 1  | -Fluoride                          | 25      | 25         | 1   | 1  | 1  |
|                                             |                | 60         | 2   | 3  | 3  |                                    |         | 60         | 2   | 1  | 1  |
|                                             |                | 100        | -   | -  | 3  |                                    |         | 100        | -   | -  | -  |
| -glacial                                    | 100            | 25         | 2   | 1  | 1  | -Phosphate                         | all     | 25         | 1   | 1  | 1  |
|                                             |                | 60         | 3   | 2  | 2  |                                    |         | 60         | 1   | 1  | 1  |
|                                             |                | 100        | -   | -  | 3  |                                    |         | 100        | -   | -  | -  |
| <b>Acetic Anhydride</b>                     | 100            | 25         | 3   | 2  | 1  | -Hydrosulphate                     | dil     | 25         | 1   | 1  | 1  |
|                                             |                | 60         | 3   | 2  | 2  |                                    |         | 60         | 2   | 1  | 1  |
|                                             |                | 100        | -   | -  | 3  |                                    |         | 100        | -   | -  | -  |
| <b>Acetone</b>                              | 10             | 25         | 3   | 1  | 1  | -Hydroxide                         | 28      | 25         | 1   | 1  | 1  |
|                                             |                | 60         | 3   | -  | 3  |                                    |         | 60         | 2   | 1  | 1  |
|                                             |                | 100        | -   | -  | 3  |                                    |         | 100        | -   | -  | -  |
|                                             | 100            | 25         | 3   | 2  | 1  | -Metaphosphate                     | all     | 25         | 1   | -  | 1  |
|                                             |                | 60         | 3   | 2  | 3  |                                    |         | 60         | 1   | -  | 1  |
|                                             |                | 100        | -   | -  | 3  |                                    |         | 100        | -   | -  | -  |
| <b>Acetophenone</b>                         | nd             | 25         | -   | -  | 1  | -Nitrate                           | sat     | 25         | 1   | 1  | 1  |
|                                             |                | 60         | -   | -  | 3  |                                    |         | 60         | 1   | 1  | 1  |
|                                             |                | 100        | -   | -  | -  |                                    |         | 100        | -   | -  | 1  |
| <b>Acrylonitrile</b>                        | technical pure | 25         | -   | 1  | 1  | -Persulphate                       | all     | 25         | 1   | -  | 1  |
|                                             |                | 60         | 3   | 1  | 1  |                                    |         | 60         | 1   | -  | -  |
|                                             |                | 100        | -   | -  | -  |                                    |         | 100        | -   | -  | -  |
| <b>Adipic Acid</b><br>-water base solution  | sat            | 25         | 1   | 1  | 1  | -Sulphur                           | deb     | 25         | 1   | 1  | 1  |
|                                             |                | 60         | 2   | 1  | 1  |                                    |         | 60         | 2   | 1  | 1  |
|                                             |                | 100        | -   | -  | -  |                                    |         | 100        | -   | -  | -  |
| <b>Allyl Alcohol</b>                        | 96             | 25         | 2   | 1  | 1  |                                    | sat     | 25         | 1   | 1  | 1  |
|                                             |                | 60         | 3   | 2  | 1  |                                    |         | 60         | 1   | 1  | 1  |
|                                             |                | 100        | -   | -  | 1  |                                    |         | 100        | -   | -  | -  |
| <b>Alum</b><br>-water base solution         | dil            | 25         | 1   | 1  | 1  | -Triphosphate                      | all     | 25         | 1   | -  | 1  |
|                                             |                | 60         | 2   | 1  | 1  |                                    |         | 60         | 1   | -  | 1  |
|                                             |                | 100        | -   | -  | -  |                                    |         | 100        | -   | -  | -  |
|                                             | sat            | 25         | -   | 1  | 1  | <b>Amyl Acetate</b>                | 100     | 25         | 3   | 1  | 2  |
|                                             |                | 60         | 2   | 1  | 1  |                                    |         | 60         | 3   | 2  | -  |
|                                             |                | 100        | -   | -  | -  |                                    |         | 100        | -   | -  | -  |
| <b>Aluminum</b><br>-Chloride                | all            | 25         | 1   | 1  | -  | <b>Amyl Alcohol</b>                | nd      | 25         | 1   | 1  | 1  |
|                                             |                | 60         | 1   | 1  | -  |                                    |         | 60         | 2   | 1  | 1  |
|                                             |                | 100        | -   | -  | -  |                                    |         | 100        | -   | -  | 1  |
| -Fluoride                                   | 100            | 25         | 1   | 1  | -  | <b>Aniline</b>                     | all     | 25         | 3   | 2  | 1  |
|                                             |                | 60         | 1   | 1  | -  |                                    |         | 60         | 3   | 2  | 1  |
|                                             |                | 100        | -   | -  | -  |                                    |         | 100        | -   | -  | -  |
| -Hydroxide                                  | all            | 25         | 1   | -  | -  | -Chlorhydrate                      | nd      | 25         | 2   | 2  | 2  |
|                                             |                | 60         | 1   | -  | -  |                                    |         | 60         | 3   | 2  | 2  |
|                                             |                | 100        | -   | -  | -  |                                    |         | 100        | -   | -  | 3  |
| -Nitrate                                    | nd             | 25         | 1   | -  | -  | <b>Anthraquinone Sulfonic Acid</b> | susp    | 25         | 1   | 1  | 1  |
|                                             |                | 60         | 1   | -  | -  |                                    |         | 60         | 2   | -  | 1  |
|                                             |                | 100        | -   | -  | -  |                                    |         | 100        | -   | -  | -  |
| -Sulfate                                    | deb            | 25         | 1   | 1  | 1  | <b>Aqua Regia</b>                  | 100     | 25         | 2   | 3  | 3  |
|                                             |                | 60         | 1   | 1  | 1  |                                    |         | 60         | 2   | 3  | 3  |
|                                             |                | 100        | -   | -  | -  |                                    |         | 100        | -   | -  | 3  |
|                                             | sat            | 25         | 1   | 1  | 1  | <b>Arsenious Acid</b>              | deb     | 25         | 1   | 1  | 1  |
|                                             |                | 60         | 1   | 1  | 1  |                                    |         | 60         | 2   | 1  | 1  |
|                                             |                | 100        | -   | -  | 2  |                                    |         | 100        | -   | -  | -  |
| <b>Ammonia...</b><br>-water base solution   | deb            | 25         | 1   | 1  | 1  |                                    | 80      | 25         | 1   | 1  | 1  |
|                                             |                | 60         | 2   | 1  | -  |                                    |         | 60         | 2   | 1  | 1  |
|                                             |                | 100        | -   | -  | -  |                                    |         | 100        | -   | -  | 2  |
|                                             | sat            | 25         | 1   | -  | 1  |                                    |         | 25         | 1   | 1  | 1  |
|                                             |                | 60         | 2   | -  | -  |                                    |         | 60         | 2   | 1  | 1  |
|                                             |                | 100        | -   | -  | -  |                                    |         | 100        | -   | -  | -  |

## TABLE FOR COMPATIBILITY WITH CHEMICAL AGENTS

1 Resistant - 2 Partially Resistant - 3 NOT Resistant

\*\*\*The above data are not binding\*\*\*

| CHEMICAL AGENTS       | Conc. %        | Temp. (°C) | PVC | PE | PP | CHEMICAL AGENTS        | Conc. % | Temp. (°C) | PVC | PE | PP |
|-----------------------|----------------|------------|-----|----|----|------------------------|---------|------------|-----|----|----|
| <b>Barium</b>         |                | 25         | 1   | 1  | 1  | <b>Butyl Alcohol</b>   |         | 25         | 1   | 1  | 1  |
| -Carbonate            | all            | 60         | 1   | 1  | 1  |                        |         | 60         | 2   | 1  | 2  |
|                       |                | 100        | -   | -  | -  |                        |         | 100        | -   | -  | 2  |
| -Chloride             | 10             | 25         | 1   | 1  | 1  | <b>Butyl Phenol</b>    | 100     | 25         | 2   | 3  | 3  |
|                       |                | 60         | 1   | 1  | 1  |                        |         | 60         | 2   | 3  | 3  |
|                       |                | 100        | -   | -  | -  |                        |         | 100        | -   | -  | -  |
| -Hydroxide            | all            | 25         | 1   | 1  | 1  | <b>Butylene Glycol</b> | 100     | 25         | -   | 1  | 1  |
|                       |                | 60         | 1   | 1  | 1  |                        |         | 60         | 2   | 1  | -  |
|                       |                | 100        | -   | -  | -  |                        |         | 100        | -   | -  | -  |
| -Sulfate              | nd             | 25         | 1   | 1  | 1  | <b>Butyric Acid</b>    | 20      | 25         | 1   | 1  | 3  |
|                       |                | 60         | 1   | 1  | 1  |                        |         | 60         | 2   | 2  | 3  |
|                       |                | 100        | -   | -  | -  |                        |         | 100        | -   | -  | 3  |
| -Sulphur              | sat            | 25         | 1   | -  | 1  |                        | conc    | 25         | 3   | 3  | 3  |
|                       |                | 60         | 1   | -  | -  |                        |         | 60         | 3   | 3  | 3  |
|                       |                | 100        | -   | -  | -  |                        |         | 100        | -   | -  | 3  |
| <b>Beer</b>           | comm           | 25         | 1   | 1  | -  | <b>Calcium</b>         | nd      | 25         | 1   | 1  | 1  |
|                       |                | 60         | 1   | 1  | -  | -Bisulphate            |         | 60         | 1   | 1  | 1  |
|                       |                | 100        | -   | -  | -  |                        |         | 100        | -   | -  | -  |
| <b>Benzaldehyde</b>   | nd             | 25         | 3   | 2  | 3  | -Carbonate             | all     | 25         | 1   | 1  | 1  |
|                       |                | 60         | 3   | 2  | 3  |                        |         | 60         | 1   | 1  | 1  |
|                       |                | 100        | -   | -  | -  |                        |         | 100        | -   | -  | -  |
| <b>Benzene</b>        | 100            | 25         | 3   | 3  | 3  | -Chlorate              | nd      | 25         | 1   | 1  | 1  |
|                       |                | 60         | 3   | 3  | 3  |                        |         | 60         | 1   | 1  | -  |
|                       |                | 100        | -   | -  | 3  |                        |         | 100        | -   | -  | -  |
| -+Petrol              | 20/80          | 25         | 3   | -  | 3  | -Chloride              | all     | 25         | 1   | 1  | 1  |
|                       |                | 60         | 3   | -  | 3  |                        |         | 60         | 2   | 1  | 1  |
|                       |                | 100        | -   | -  | -  |                        |         | 100        | -   | -  | 2  |
| -Chloride             | technical pure | 25         | 3   | 2  | 1  | -Hydroxide             | all     | 25         | 1   | -  | 1  |
|                       |                | 60         | -   | -  | -  |                        |         | 60         | 1   | -  | 1  |
|                       |                | 100        | -   | -  | -  |                        |         | 100        | -   | -  | -  |
| <b>Benzoic Acid</b>   | sat            | 25         | 1   | 1  | 1  | -Hypochlorite          | sat     | 25         | -   | 1  | 1  |
|                       |                | 60         | 2   | 1  | 1  |                        |         | 60         | 2   | 1  | 1  |
|                       |                | 100        | -   | -  | 3  |                        |         | 100        | -   | -  | -  |
| <b>Benzyl Alcohol</b> | 100            | 25         | -   | 1  | 1  | -Nitrate               | 50      | 25         | 1   | 1  | 1  |
|                       |                | 60         | -   | 2  | 2  |                        |         | 60         | 1   | -  | -  |
|                       |                | 100        | -   | -  | -  |                        |         | 100        | -   | -  | -  |
| <b>Boric Acid</b>     | deb            | 25         | 1   | 1  | 1  | -Sulfate               | nd      | 25         | 1   | 1  | 1  |
|                       |                | 60         | 2   | 1  | 1  |                        |         | 60         | 1   | 1  | 1  |
|                       |                | 100        | -   | -  | 1  |                        |         | 100        | -   | -  | -  |
|                       | sat            | 25         | 1   | 1  | 1  | -Sulphur               | sat     | 25         | 1   | 2  | 1  |
|                       |                | 60         | 2   | 1  | 1  |                        |         | 60         | 1   | 2  | -  |
|                       |                | 100        | -   | -  | 1  |                        |         | 100        | -   | -  | -  |
| <b>Brine</b>          | comm           | 25         | 1   | -  | 1  | <b>Carbon</b>          | 100     | 25         | 1   | 1  | 1  |
|                       |                | 60         | 1   | -  | -  | -Dioxide Gas           |         | 60         | 1   | 1  | 1  |
|                       |                | 100        | -   | -  | -  |                        |         | 100        | -   | -  | -  |
| <b>Bromic Acid</b>    | 10             | 25         | 1   | 1  | -  | -water base solution   |         | 25         | 1   | 1  | 1  |
|                       |                | 60         | 1   | 1  | -  |                        |         | 60         | 2   | 1  | 1  |
|                       |                | 100        | -   | -  | -  |                        |         | 100        | -   | -  | -  |
| <b>Bromine</b>        | 100            | 25         | 3   | 3  | 3  | -Monoxide              | 100     | 25         | 1   | 1  | 1  |
| -liquid               |                | 60         | 3   | 3  | 3  |                        |         | 60         | 1   | 1  | 1  |
|                       |                | 100        | -   | -  | 3  |                        |         | 100        | -   | -  | -  |
| -steam                | minim          | 25         | 2   | 3  | 3  | -Sulphur               | 100     | 25         | 2   | 2  | 1  |
|                       |                | 60         | -   | 3  | 3  |                        |         | 60         | 3   | -  | 3  |
|                       |                | 100        | -   | -  | 3  |                        |         | 100        | -   | -  | 3  |
| <b>Butadiene</b>      | 100            | 25         | 1   | -  | 1  | -Tetrachloride         | 100     | 25         | 2   | 2  | 3  |
|                       |                | 60         | 1   | 3  | 3  |                        |         | 60         | 3   | 3  | 3  |
|                       |                | 100        | -   | -  | -  |                        |         | 100        | -   | -  | -  |
| <b>Butane Gas</b>     | 10             | 25         | 1   | 1  | 1  | <b>Carbonic Acid</b>   | 100     | 25         | 1   | -  | -  |
|                       |                | 60         | -   | 1  | -  | -dry                   |         | 60         | 1   | -  | -  |
|                       |                | 100        | -   | -  | -  |                        |         | 100        | -   | -  | -  |
| <b>Butanediol</b>     | 10             | 25         | 1   | -  | 1  | -water base solution   | sat     | 25         | 1   | -  | -  |
|                       |                | 60         | 3   | -  | -  |                        |         | 60         | 1   | -  | -  |
|                       |                | 100        | -   | -  | -  |                        |         | 100        | -   | -  | -  |
|                       | conc.          | 25         | 2   | 2  | 2  | -damp                  | all     | 25         | 1   | -  | -  |
|                       |                | 60         | 3   | 3  | 2  |                        |         | 60         | 1   | -  | -  |
|                       |                | 100        | -   | -  | -  |                        |         | 100        | -   | -  | -  |
| <b>Butanone</b>       | all            | 25         | 3   | 1  | 1  | <b>Chloramine</b>      | dil     | 25         | 1   | 1  | 1  |
|                       |                | 60         | 3   | 2  | 2  | -water base solution   |         | 60         | -   | -  | -  |
|                       |                | 100        | -   | -  | -  |                        |         | 100        | -   | -  | -  |
| <b>Butyl Acetate</b>  | 100            | 25         | 3   | 3  | 2  | <b>Chloric Acid</b>    | 20      | 25         | 1   | 1  | 1  |
|                       |                | 60         | 3   | 3  | 3  |                        |         | 60         | 2   | 3  | 3  |
|                       |                | 100        | -   | -  | 3  |                        |         | 100        | -   | -  | 3  |

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1 Resistant - 2 Partially Resistant - 3 NOT Resistant

\*\*\*The above data are not binding\*\*\*

| CHEMICAL AGENTS            | Conc. %  | Temp. (°C)      | PVC         | PE          | PP          | CHEMICAL AGENTS                     | Conc. % | Temp. (°C)      | PVC         | PE          | PP          |
|----------------------------|----------|-----------------|-------------|-------------|-------------|-------------------------------------|---------|-----------------|-------------|-------------|-------------|
| <b>Chloride Methylene</b>  | 100      | 25<br>60<br>100 | 3<br>3<br>- | 3<br>-<br>- | 3<br>3<br>3 | <b>Cyclohexane</b>                  | all     | 25<br>60<br>100 | 3<br>3<br>- | 1<br>-<br>- | 1<br>2<br>- |
| <b>Chlorine</b>            | sat      | 25<br>60<br>100 | 2<br>3<br>- | -<br>-<br>- | -<br>-<br>- | <b>Cyclohexanone</b>                | all     | 25<br>60<br>100 | 3<br>3<br>- | 1<br>-<br>- | -<br>3<br>3 |
| -dry gas                   | 10       | 25<br>60<br>100 | 1<br>2<br>- | -<br>-<br>- | 3<br>3<br>- | <b>Decalin decahydronaphthalene</b> | nd      | 25<br>60<br>100 | 1<br>1<br>- | 1<br>2<br>- | 3<br>3<br>- |
|                            | 100      | 25<br>60<br>100 | 2<br>3<br>- | -<br>-<br>- | 3<br>3<br>- | <b>Dextrin</b>                      | nd      | 25<br>60<br>100 | 1<br>2<br>- | 1<br>1<br>- | 1<br>1<br>- |
| -damp gas                  | 5 gr/m3  | 25<br>60<br>100 | 1<br>3<br>- | -<br>-<br>- | 3<br>3<br>- | <b>Dichloroacetic Acid</b>          | 100     | 25<br>60<br>100 | 1<br>2<br>- | 1<br>2<br>- | 1<br>2<br>- |
|                            | 10 gr/m3 | 25<br>60<br>100 | 2<br>2<br>- | -<br>-<br>- | 3<br>3<br>- | <b>Dichloro Benzene</b>             | all     | 25<br>60<br>100 | 3<br>3<br>- | -<br>-<br>- | 3<br>3<br>- |
|                            | 66 gr/m3 | 25<br>60<br>100 | 2<br>2<br>- | -<br>-<br>- | 3<br>3<br>- | <b>Dichloroethane</b>               | 100     | 25<br>60<br>100 | 3<br>3<br>- | 3<br>3<br>- | 1<br>-<br>- |
| -liquid                    | 100      | 25<br>60<br>100 | 3<br>-<br>- | 3<br>-<br>- | 3<br>3<br>- | <b>Dichloroethylene</b>             | 100     | 25<br>60<br>100 | 3<br>3<br>- | 3<br>3<br>- | 2<br>-<br>- |
| <b>Chloroacetic Acid</b>   | 85       | 25<br>60<br>100 | 1<br>2<br>- | 2<br>3<br>- | 1<br>3<br>3 | <b>Diethylether</b>                 | 100     | 25<br>60<br>100 | 3<br>3<br>- | 3<br>3<br>- | 1<br>1<br>- |
|                            | 100      | 25<br>60<br>100 | 1<br>2<br>- | 2<br>3<br>- | -<br>3<br>3 | <b>Diglycolic Acid</b>              | 18      | 25<br>60<br>100 | 1<br>2<br>- | 1<br>1<br>- | 1<br>1<br>- |
| <b>Chloroform</b>          | all      | 25<br>60<br>100 | 3<br>3<br>- | 2<br>-<br>- | 2<br>3<br>3 | <b>Dimethylamine</b>                | 100     | 25<br>60<br>100 | 2<br>3<br>- | -<br>2<br>- | 1<br>2<br>- |
| <b>Chlorosulfuric Acid</b> | 100      | 25<br>60<br>100 | 2<br>3<br>- | 3<br>3<br>- | 3<br>3<br>3 | <b>Diocetyl Phthalate</b>           | all     | 25<br>60<br>100 | 3<br>3<br>- | 1<br>2<br>- | 2<br>2<br>- |
| <b>Chromic Acid</b>        | 10       | 25<br>60<br>100 | 1<br>2<br>- | 2<br>3<br>- | 1<br>2<br>3 | <b>Dybutyl Phthalate</b>            | 10      | 25<br>60<br>100 | 3<br>3<br>- | 3<br>-<br>- | 3<br>3<br>- |
|                            | 30       | 25<br>60<br>100 | 1<br>2<br>- | 2<br>3<br>- | 2<br>3<br>3 | <b>Ether</b>                        | all     | 25<br>60<br>100 | 3<br>3<br>- | -<br>-<br>- | 3<br>3<br>- |
|                            | 50       | 25<br>60<br>100 | 1<br>2<br>- | 2<br>3<br>- | 2<br>3<br>3 | <b>Ethyl Acetate</b>                | 100     | 25<br>60<br>100 | 3<br>3<br>- | 1<br>3<br>- | 2<br>3<br>3 |
| -Solution                  | 50/35/15 | 25<br>60<br>100 | 1<br>2<br>- | 3<br>3<br>- | 3<br>3<br>3 | <b>Ethyl Alcohol</b>                | nd      | 25<br>60<br>100 | 1<br>2<br>- | 1<br>2<br>- | 1<br>1<br>1 |
| <b>Citric Acid</b>         |          | 25<br>60<br>100 | 1<br>1<br>- | 1<br>1<br>- | 1<br>1<br>1 | <b>Ethyl Chloride</b>               | all     | 25<br>60<br>100 | 3<br>3<br>- | 2<br>-<br>- | 3<br>3<br>- |
| -water base solution       | 50       | 25<br>60<br>100 | 1<br>1<br>- | 1<br>1<br>- | 1<br>1<br>1 | <b>Ethyl Ether</b>                  | all     | 25<br>60<br>100 | 3<br>3<br>- | -<br>-<br>- | 3<br>3<br>- |
| <b>Copper</b>              | all      | 25<br>60<br>100 | 3<br>3<br>- | -<br>-<br>- | 1<br>1<br>- | <b>Ethylene Glycol</b>              | comm    | 25<br>60<br>100 | 1<br>2<br>- | 1<br>3<br>- | 1<br>1<br>- |
| -Cyanide                   | sat      | 25<br>60<br>100 | 1<br>1<br>- | 1<br>1<br>- | 1<br>1<br>1 | <b>Ethylene Chlorohydrin</b>        | 100     | 25<br>60<br>100 | 3<br>3<br>- | -<br>-<br>- | -<br>-<br>- |
| -Chloride                  | all      | 25<br>60<br>100 | 1<br>1<br>- | 1<br>1<br>- | 3<br>3<br>- | <b>Fatty Acids</b>                  | nd      | 25<br>60<br>100 | 1<br>1<br>- | -<br>-<br>- | -<br>-<br>- |
| -Fluoride                  | nd       | 25<br>60<br>100 | 1<br>2<br>- | 1<br>1<br>- | 1<br>1<br>- | <b>Fertilizer</b>                   | %10     | 25<br>60<br>100 | 1<br>1<br>- | 1<br>1<br>- | 1<br>1<br>1 |
| -Nitrate                   | dl       | 25<br>60<br>100 | 1<br>1<br>- | 1<br>1<br>- | 3<br>3<br>- |                                     | sat     | 25<br>60<br>100 | 1<br>1<br>- | 1<br>1<br>- | 1<br>1<br>1 |
| -Sulfate                   | sat      | 25<br>60<br>100 | 1<br>1<br>- | 1<br>1<br>- | 1<br>1<br>1 | <b>Fluorine Dry Gas</b>             | 100     | 25<br>60<br>100 | 2<br>3<br>- | 2<br>3<br>- | 3<br>3<br>3 |
| <b>Cresol</b>              | s90      | 25<br>60<br>100 | 2<br>3<br>- | 1<br>-<br>- | 1<br>-<br>- |                                     |         |                 |             |             |             |
|                            | > _      | 25<br>60<br>100 | 3<br>3<br>- | -<br>-<br>- | 2<br>-<br>- |                                     |         |                 |             |             |             |

## TABLE FOR COMPATIBILITY WITH CHEMICAL AGENTS

1 Resistant - 2 Partially Resistant - 3 NOT Resistant

\*\*\*The above data are not binding\*\*\*

| CHEMICAL AGENTS               | Conc. % | Temp. (°C)      | PVC         | PE          | PP          | CHEMICAL AGENTS               | Conc. % | Temp. (°C)      | PVC         | PE          | PP          |
|-------------------------------|---------|-----------------|-------------|-------------|-------------|-------------------------------|---------|-----------------|-------------|-------------|-------------|
| <b>Formaldehyde</b>           |         | 25<br>60<br>100 | 1<br>2<br>- | 1<br>1<br>- | 1<br>1<br>- | <b>Hydrogen</b>               | all     | 25<br>60<br>100 | -<br>-<br>- | -<br>-<br>- | -<br>-<br>- |
| <b>Formic Acid</b>            | 50      | 25<br>60<br>100 | 1<br>2<br>- | 1<br>1<br>- | 1<br>1<br>- | -Peroxide                     | 30      | 25<br>60<br>100 | 1<br>1<br>- | 1<br>1<br>1 | 1<br>1<br>- |
|                               | 100     | 25<br>60<br>100 | 1<br>3<br>- | 1<br>1<br>- | 1<br>1<br>- |                               | 50      | 25<br>60<br>100 | 1<br>1<br>- | 2<br>-<br>- | 1<br>2<br>- |
| <b>Fruit</b>                  |         | 25<br>60<br>100 | 1<br>1<br>- | 1<br>-<br>- | 1<br>1<br>- |                               | 90      | 25<br>60<br>100 | 1<br>1<br>- | 1<br>2<br>- | 1<br>2<br>- |
| -pulp and juice               | comm    |                 |             |             |             | -dry sulphide                 | sat     | 25<br>60<br>100 | 1<br>2<br>- | 1<br>1<br>- | 1<br>1<br>- |
| <b>Gas</b>                    |         | 25<br>60<br>100 | 1<br>1<br>- | -<br>-<br>- | -<br>-<br>- | -damp sulphide                | sat     | 25<br>60<br>100 | 1<br>2<br>- | 1<br>1<br>- | 1<br>1<br>- |
| -from exhaust acids           | all     |                 |             |             |             | <b>Hydrosulphite</b>          | %10     | 25<br>60<br>100 | 1<br>2<br>- | -<br>-<br>- | 1<br>1<br>- |
| -with nitrous vapors          | traces  | 25<br>60<br>100 | 1<br>1<br>- | 1<br>1<br>- | 1<br>1<br>- | <b>hydroxylamine sulphate</b> | 12      | 25<br>60<br>100 | 1<br>1<br>- | 1<br>-<br>- | 1<br>1<br>- |
| -illuminating                 | 100     | 25<br>60<br>100 | 1<br>-<br>- | 1<br>-<br>- | 1<br>-<br>- | <b>Hydrofluoric Acid</b>      | 10      | 25<br>60<br>100 | 1<br>2<br>- | 1<br>1<br>- | 1<br>1<br>3 |
| <b>Gasoline</b>               |         | 25<br>60<br>100 | 1<br>1<br>- | -<br>-<br>- | 1<br>3<br>- |                               | 60      | 25<br>60<br>100 | 2<br>3<br>- | 1<br>-<br>- | 1<br>3<br>3 |
| -row                          | 100     |                 |             |             |             | <b>Iodine</b>                 | 3       | 25<br>60<br>100 | 2<br>3<br>- | -<br>-<br>- | 1<br>-<br>- |
| -refined                      | 100     | 25<br>60<br>100 | 1<br>-<br>- | -<br>1<br>- | 1<br>3<br>- | -dry and damp                 |         |                 |             |             |             |
| <b>Gelatine</b>               | 100     | 25<br>60<br>100 | 1<br>1<br>- | 1<br>-<br>- | 1<br>1<br>- | -iodine                       | 3       | 25<br>60<br>100 | 2<br>3<br>- | 2<br>3<br>- | 1<br>3<br>- |
| <b>Glucose</b>                | all     | 25<br>60<br>100 | 1<br>2<br>- | 1<br>1<br>- | 1<br>1<br>- | <b>Iron</b>                   | 10      | 25<br>60<br>100 | 1<br>2<br>- | -<br>-<br>- | 1<br>1<br>- |
| <b>Glycerine</b>              |         | 25<br>60<br>100 | 1<br>1<br>- | 1<br>1<br>- | 1<br>1<br>- | -Chloride                     |         |                 |             |             |             |
| -water base solution          | all     |                 |             |             |             |                               | sat     | 25<br>60<br>100 | 1<br>1<br>- | 1<br>1<br>- | 1<br>1<br>1 |
| <b>Glycocol</b>               | 10      | 25<br>60<br>100 | 1<br>1<br>- | 1<br>1<br>- | 1<br>1<br>- | -ferrous Chloride             | sat     | 25<br>60<br>100 | 1<br>1<br>- | 1<br>1<br>- | 1<br>-<br>- |
| <b>Glycolic Acid</b>          | 37      | 25<br>60<br>100 | 1<br>1<br>- | 1<br>1<br>- | 1<br>-<br>- | -Nitrate                      | nd      | 25<br>60<br>100 | 1<br>1<br>- | 1<br>1<br>- | -<br>-<br>- |
| <b>Heptane</b>                | 100     | 25<br>60<br>100 | 1<br>2<br>- | 1<br>3<br>- | 3<br>3<br>- | -ferric Sulfate               | nd      | 25<br>60<br>100 | 1<br>1<br>- | 1<br>1<br>- | 1<br>-<br>- |
| <b>Hexafluorosilicic Acid</b> | 32      | 25<br>60<br>100 | 1<br>1<br>- | 1<br>1<br>- | 1<br>1<br>- | -ferrous Sulfate              | nd      | 25<br>60<br>100 | 1<br>1<br>- | 1<br>1<br>- | 1<br>-<br>- |
| <b>Hexane</b>                 | 100     | 25<br>60<br>100 | 1<br>2<br>- | 1<br>2<br>- | 1<br>2<br>- | <b>Isooctane</b>              | 100     | 25<br>60<br>100 | 1<br>-<br>- | 2<br>-<br>- | 2<br>3<br>- |
| <b>Hydrobromic Acid</b>       | 10      | 25<br>60<br>100 | 1<br>2<br>- | 1<br>1<br>- | 1<br>1<br>3 | <b>Isopropyl Alcohol</b>      | 100     | 25<br>60<br>100 | -<br>2<br>- | -<br>-<br>- | 1<br>1<br>- |
|                               | 48      | 25<br>60<br>100 | 1<br>2<br>- | 1<br>1<br>- | 1<br>1<br>3 | <b>Isopropyl Ether</b>        | 100     | 25<br>60<br>100 | 2<br>3<br>- | 2<br>3<br>- | 2<br>3<br>- |
| <b>Hydrochloric Acid</b>      | s25     | 25<br>60<br>100 | 1<br>2<br>- | 1<br>1<br>- | 1<br>1<br>1 | <b>Lactic Acid</b>            | <28     | 25<br>60<br>100 | 1<br>2<br>- | 1<br>1<br>- | 1<br>1<br>1 |
|                               | s37     | 25<br>60<br>100 | 1<br>1<br>- | 2<br>2<br>- | 1<br>1<br>2 | <b>Lanolin</b>                | nd      | 25<br>60<br>100 | -<br>2<br>- | 1<br>-<br>- | 1<br>2<br>- |
| <b>Hydrocyanic Acid</b>       | deb     | 25<br>60<br>100 | 1<br>1<br>- | 1<br>1<br>- | 1<br>1<br>- |                               |         |                 |             |             |             |

## TABLE FOR COMPATIBILITY WITH CHEMICAL AGENTS

1 Resistant - 2 Partially Resistant - 3 NOT Resistant

\*\*\*The above data are not binding\*\*\*

| CHEMICAL AGENTS             | Conc. % | Temp. (°C) | PVC | PE | PP | CHEMICAL AGENTS     | Conc. % | Temp. (°C) | PVC | PE | PP |
|-----------------------------|---------|------------|-----|----|----|---------------------|---------|------------|-----|----|----|
| <b>Lead</b>                 |         | 25         | 1   | 1  | 1  | <b>Naphta</b>       |         | 25         | 2   | 2  | 1  |
| -Acetate                    | sat     | 60         | 1   | -  | 2  |                     | 100     | 60         | 3   | 3  | 3  |
|                             |         | 100        | -   | -  | -  |                     |         | 100        | -   | -  | -  |
| -Tetra-Ethyl                | 100     | 25         | 1   | 1  | 1  |                     | comm    | 25         | 1   | -  | 1  |
|                             |         | 60         | 2   | -  | -  |                     |         | 60         | 1   | 2  | 2  |
|                             |         | 100        | -   | -  | -  |                     |         | 100        | -   | -  | -  |
| <b>Lubricating Oils</b>     | comm    | 25         | 1   | 3  | 1  | <b>Naphthalene</b>  | 100     | 25         | 1   | 1  | 3  |
|                             |         | 60         | 1   | -  | 2  |                     |         | 60         | -   | 2  | 3  |
|                             |         | 100        | -   | -  | -  |                     |         | 100        | -   | -  | 3  |
| <b>Magnesium</b>            |         | 25         | 1   | -  | 1  | <b>Nickel</b>       |         | 25         | 1   | 1  | 1  |
| -Carbonate                  | all     | 60         | 1   | -  | 1  | -Chloride           | all     | 60         | 1   | 1  | 1  |
|                             |         | 100        | -   | -  | -  |                     |         | 100        | -   | -  | 1  |
| -Chloride                   | sat     | 25         | 1   | 1  | 1  |                     | nd      | 25         | 1   | 1  | 1  |
|                             |         | 60         | 1   | 1  | 1  | -Nitrate            |         | 60         | 1   | 1  | 1  |
|                             |         | 100        | -   | -  | 2  |                     |         | 100        | -   | -  | 2  |
| -Hydroxide                  | all     | 25         | 1   | -  | 1  | -Sulfate            | dl      | 25         | 1   | 1  | 1  |
|                             |         | 60         | 1   | -  | 1  |                     |         | 60         | 1   | 2  | 1  |
|                             |         | 100        | -   | -  | -  |                     |         | 100        | -   | -  | -  |
| -Nitrate                    | nd      | 25         | 1   | 1  | 1  |                     | sat     | 25         | 1   | 1  | 1  |
|                             |         | 60         | 1   | 1  | 1  |                     |         | 60         | 1   | 1  | 1  |
|                             |         | 100        | -   | -  | -  |                     |         | 100        | -   | -  | -  |
| -Sulfate                    | dl      | 25         | 1   | 1  | 1  | <b>Nitric Acid</b>  | anhyd.  | 25         | 3   | -  | 3  |
|                             |         | 60         | 1   | 1  | 1  |                     |         | 60         | 3   | -  | 3  |
|                             |         | 100        | -   | -  | -  |                     |         | 100        | -   | -  | 3  |
|                             | sat     | 25         | 1   | 1  | 1  |                     | s20     | 25         | 1   | 1  | 1  |
|                             |         | 60         | 1   | 1  | 1  |                     |         | 60         | 2   | 2  | 2  |
|                             |         | 100        | -   | -  | -  |                     |         | 100        | -   | -  | 3  |
| <b>Maleic Acid</b>          | nd      | 25         | 1   | 1  | 1  |                     | 40      | 25         | 1   | -  | 2  |
|                             |         | 60         | 1   | 1  | 1  |                     |         | 60         | 1   | 2  | 3  |
|                             |         | 100        | -   | -  | 1  |                     |         | 100        | -   | -  | 3  |
| <b>Malic Acid</b>           | nd      | 25         | 1   | 1  | 1  |                     | 60      | 25         | 1   | 3  | 2  |
|                             |         | 60         | -   | -  | 1  |                     |         | 60         | 2   | 3  | 3  |
|                             |         | 100        | -   | -  | -  |                     |         | 100        | -   | -  | 3  |
| <b>Mercury</b>              | 100     | 25         | 1   | 1  | 1  |                     | 98      | 25         | 3   | 3  | 3  |
|                             |         | 60         | 2   | 1  | 1  |                     |         | 60         | 3   | 3  | 3  |
|                             |         | 100        | -   | -  | -  |                     |         | 100        | -   | -  | 3  |
| -Cyanide                    | all     | 25         | 1   | -  | 1  | <b>Nitrobenzene</b> | all     | 25         | 3   | -  | 1  |
|                             |         | 60         | 1   | -  | 1  |                     |         | 60         | 3   | 2  | 2  |
|                             |         | 100        | -   | -  | -  |                     |         | 100        | -   | -  | -  |
| -Chloride                   | sat     | 25         | 1   | 1  | 1  | <b>Oil</b>          | 100     | 25         | 1   | -  | 1  |
|                             |         | 60         | 1   | 1  | 1  | -fuel oil           |         | 60         | 1   | -  | 2  |
|                             |         | 100        | -   | -  | -  |                     |         | 100        | -   | -  | -  |
| -Nitrate                    | nd      | 25         | 1   | 1  | 1  | -camphor oil        | nd      | 25         | 1   | 3  | 3  |
|                             |         | 60         | 1   | 1  | 1  |                     |         | 60         | -   | 3  | 3  |
|                             |         | 100        | -   | -  | -  |                     |         | 100        | -   | -  | -  |
| <b>Methanesulfonic Acid</b> | 50      | 25         | 1   | 2  | 2  | -olive oil          | comm    | 25         | -   | -  | 1  |
|                             |         | 60         | 2   | 2  | 2  |                     |         | 60         | 2   | 3  | 1  |
|                             |         | 100        | -   | -  | 3  |                     |         | 100        | -   | -  | -  |
|                             | 100     | 25         | 1   | 3  | 3  | -paraffin oil       | nd      | 25         | 1   | -  | 1  |
|                             |         | 60         | 2   | 3  | 3  |                     |         | 60         | 1   | -  | 3  |
|                             |         | 100        | -   | -  | 3  |                     |         | 100        | -   | -  | -  |
| <b>Methyl</b>               |         | 25         | -   | -  | 1  | -castornut oil      | comm    | 25         | 1   | -  | 3  |
| -Acetate                    | 100     | 60         | -   | -  | 1  |                     |         | 60         | 1   | -  | 1  |
|                             |         | 100        | -   | -  | -  |                     |         | 100        | -   | -  | -  |
| -Bromide                    | 100     | 25         | 3   | 3  | 3  | -cottonseed oil     | comm    | 25         | 1   | -  | 1  |
|                             |         | 60         | -   | -  | 3  |                     |         | 60         | 1   | -  | 1  |
|                             |         | 100        | -   | -  | -  |                     |         | 100        | -   | -  | -  |
| -Chloride                   | 100     | 25         | 3   | 1  | 3  | -linseed oil        | comm    | 25         | 1   | -  | 1  |
|                             |         | 60         | 3   | -  | 3  |                     |         | 60         | 2   | 2  | 1  |
|                             |         | 100        | -   | -  | 3  |                     |         | 100        | -   | -  | -  |
| <b>Methyl Alcohol</b>       | nd      | 25         | 1   | 1  | 1  | -silicon oil        | nd      | 25         | 1   | 1  | 1  |
|                             |         | 60         | 1   | 1  | 2  |                     |         | 60         | 3   | 2  | 1  |
|                             |         | 100        | -   | -  | 2  |                     |         | 100        | -   | -  | -  |
| <b>Methylamine</b>          | 32      | 25         | 2   | 1  | 1  | -vaseline oil       | 100     | 25         | 1   | 1  | 1  |
|                             |         | 60         | 3   | 2  | -  |                     |         | 60         | 3   | 2  | 2  |
|                             |         | 100        | -   | -  | -  |                     |         | 100        | -   | -  | -  |
| <b>Milk</b>                 | 100     | 25         | 1   | 1  | 1  | -transformer oil    | nd      | 25         | 1   | 1  | 1  |
|                             |         | 60         | 1   | -  | 1  |                     |         | 60         | 2   | 2  | 2  |
|                             |         | 100        | -   | -  | 1  |                     |         | 100        | -   | -  | -  |
| <b>Molasses</b>             | comm    | 25         | 1   | 1  | 1  | <b>Oleic Acid</b>   | comm    | 25         | 1   | -  | 1  |
|                             |         | 60         | 2   | 2  | 1  |                     |         | 60         | 1   | 2  | 2  |
|                             |         | 100        | -   | -  | 2  |                     |         | 100        | -   | -  | -  |

## TABLE FOR COMPATIBILITY WITH CHEMICAL AGENTS

1 Resistant - 2 Partially Resistant - 3 NOT Resistant

\*\*\*The above data are not binding\*\*\*

| CHEMICAL AGENTS | Conc. %   | Temp. (°C) | PVC | PE | PP | CHEMICAL AGENTS           | Conc. %     | Temp. (°C) | PVC | PE | PP |
|-----------------|-----------|------------|-----|----|----|---------------------------|-------------|------------|-----|----|----|
| Oleum           | nd        | 25         | 3   | 3  | 3  | Piric Acid                | 1           | 25         | 1   | 1  | 1  |
|                 |           | 60         | 3   | 3  | 3  |                           |             | 60         | 1   | -  | -  |
|                 |           | 100        | -   | -  | -  |                           |             | 100        | -   | -  | -  |
|                 | -steam    | 25         | 3   | -  | 3  |                           | >1          | 25         | 3   | 1  | 3  |
|                 |           | 60         | 3   | -  | 3  |                           |             | 60         | 3   | 1  | 3  |
|                 |           | 100        | -   | -  | -  |                           |             | 100        | -   | -  | -  |
| Oxalic Acid     | 10        | 25         | 3   | -  | 3  | Plating chemical solution | comm        | 25         | 1   | -  | -  |
|                 |           | 60         | 3   | -  | 3  |                           |             | 60         | 1   | -  | -  |
|                 |           | 100        | -   | -  | -  |                           |             | 100        | -   | -  | -  |
|                 | sat       | 25         | 1   | 1  | 1  | Potassium                 | 40          | 25         | 1   | 1  | 1  |
|                 |           | 60         | 1   | 1  | 2  |                           |             | 60         | 1   | -  | -  |
|                 |           | 100        | -   | -  | 3  |                           |             | 100        | -   | -  | -  |
| Oxygen          | all       | 25         | 1   | 1  | 3  |                           | -Dichromate | 25         | 1   | -  | 1  |
|                 |           | 60         | 1   | 2  | 3  |                           |             | 60         | 2   | -  | 1  |
|                 |           | 100        | -   | -  | -  |                           |             | 100        | -   | -  | -  |
| Ozone           | nd        | 25         | 1   | 2  | 3  | -Borate                   | sat         | 25         | 1   | -  | 1  |
|                 |           | 60         | 2   | 3  | 3  |                           |             | 60         | 2   | -  | 1  |
|                 |           | 100        | -   | -  | -  |                           |             | 100        | -   | -  | -  |
| Palmitic Acid   | 10        | 25         | 1   | -  | -  | -Bromide                  | sat         | 25         | 1   | 1  | 1  |
|                 |           | 60         | 1   | -  | 3  |                           |             | 60         | 1   | 1  | 1  |
|                 |           | 100        | -   | -  | -  |                           |             | 100        | -   | -  | -  |
|                 | 70        | 25         | 1   | -  | -  | -Carbonate                | sat         | 25         | 1   | 1  | 1  |
|                 |           | 60         | 1   | 3  | 3  |                           |             | 60         | 1   | 1  | -  |
|                 |           | 100        | -   | -  | -  |                           |             | 100        | -   | -  | -  |
| Paraffin        | nd        | 25         | -   | -  | -  | -Chloride                 | sat         | 25         | 1   | 1  | 1  |
|                 |           | 60         | 2   | 2  | 1  |                           |             | 60         | 1   | 1  | 1  |
|                 |           | 100        | -   | -  | -  |                           |             | 100        | -   | -  | 2  |
|                 | comm      | 25         | 1   | 2  | 3  | -Cyanide                  | sat         | 25         | 1   | 1  | 1  |
|                 |           | 60         | 1   | 2  | 3  |                           |             | 60         | 1   | 1  | 1  |
|                 |           | 100        | -   | -  | -  |                           |             | 100        | -   | -  | -  |
| Perchloric Acid | 10        | 25         | 1   | 1  | 1  | -Chromate                 | 40          | 25         | 1   | 1  | 1  |
|                 |           | 60         | 2   | 1  | 1  |                           |             | 60         | 1   | 1  | 1  |
|                 |           | 100        | -   | -  | -  |                           |             | 100        | -   | -  | -  |
|                 | 70        | 25         | 1   | 1  | 1  | -Ferrocyanide             | 100         | 25         | 1   | 1  | 1  |
|                 |           | 60         | 2   | 2  | -  |                           |             | 60         | 1   | 1  | 1  |
|                 |           | 100        | -   | -  | -  |                           |             | 100        | -   | -  | 2  |
| Phenol          | 1         | 25         | 1   | 1  | 1  | -Fluoride                 | sat         | 25         | -   | 1  | 1  |
|                 |           | 60         | -   | -  | 1  |                           |             | 60         | -   | -  | 1  |
|                 |           | 100        | -   | -  | 3  |                           |             | 100        | -   | -  | -  |
|                 | s90       | 25         | 2   | 1  | 1  | -Hydroxide                | 60          | 25         | 1   | 1  | 1  |
|                 |           | 60         | 3   | -  | 3  |                           |             | 60         | 2   | 1  | 1  |
|                 |           | 100        | -   | -  | 3  |                           |             | 100        | -   | -  | 1  |
| Phenylhydrazine | all       | 25         | 3   | 2  | 2  | -Nitrate                  | sat         | 25         | 1   | 1  | 1  |
|                 |           | 60         | 3   | 2  | 2  |                           |             | 60         | 1   | 1  | 1  |
|                 |           | 100        | -   | -  | -  |                           |             | 100        | -   | -  | -  |
|                 | -Chloride | 25         | 1   | 1  | 1  | -Perborate                | all         | 25         | 1   | -  | 1  |
|                 |           | 60         | 3   | 3  | 3  |                           |             | 60         | 1   | -  | -  |
|                 |           | 100        | -   | -  | -  |                           |             | 100        | -   | -  | -  |
| Phosgene Gas    | 100       | 25         | 1   | 2  | 2  | -Permanganate             | 10          | 25         | 1   | 1  | 1  |
|                 |           | 60         | 2   | 2  | 2  |                           |             | 60         | 1   | 1  | 2  |
|                 |           | 100        | -   | -  | -  |                           |             | 100        | -   | -  | -  |
| Phosphoric Acid | s25       | 25         | 1   | 1  | 1  | -Persulfate               | nd          | 25         | 1   | 1  | 1  |
|                 |           | 60         | 2   | 1  | 1  |                           |             | 60         | 2   | 1  | 1  |
|                 |           | 100        | -   | -  | 1  |                           |             | 100        | -   | -  | -  |
|                 | s50       | 25         | 1   | 1  | 1  | -Sulfate                  | sat         | 25         | -   | -  | 1  |
|                 |           | 60         | 1   | 1  | 1  |                           |             | 60         | 1   | 1  | 1  |
|                 |           | 100        | -   | -  | 1  |                           |             | 100        | -   | -  | -  |
|                 | s85       | 25         | 1   | 1  | 1  | -Chromic Sulfate          | nd          | 25         | 1   | 1  | 1  |
|                 |           | 60         | 1   | 2  | 1  |                           |             | 60         | 2   | 1  | 1  |
|                 |           | 100        | -   | -  | 1  |                           |             | 100        | -   | -  | 2  |
| Phosphorus      | nd        | 25         | 1   | 1  | 1  | Propane                   | 100         | 25         | 1   | 1  | 1  |
|                 |           | 60         | 2   | 1  | -  |                           |             | 60         | -   | -  | -  |
|                 |           | 100        | -   | -  | -  |                           |             | 100        | -   | -  | -  |
| -Pentoxide      | 100       | 25         | 3   | 1  | 1  | -gas                      | 10          | 25         | 1   | 2  | 2  |
|                 |           | 60         | 3   | -  | -  |                           |             | 60         | -   | -  | -  |
|                 |           | 100        | -   | -  | -  |                           |             | 100        | -   | -  | -  |
| -Trichloride    | 50        | 25         | -   | 1  | 1  | Propyl Alcohol            | nd          | 25         | 1   | 1  | 1  |
|                 |           | 60         | 3   | 1  | 1  |                           |             | 60         | 2   | 1  | 1  |
|                 |           | 100        | -   | -  | -  |                           |             | 100        | -   | -  | -  |
| Phthalic Acid   | 50        | 25         | -   | 1  | 1  | Pyridine                  | nd          | 25         | 3   | 1  | 2  |
|                 |           | 60         | 3   | 1  | 1  |                           |             | 60         | 3   | 2  | 2  |
|                 |           | 100        | -   | -  | -  |                           |             | 100        | -   | -  | -  |
|                 |           | 25         | -   | 1  | 1  | Silicic Acid              | all         | 25         | 1   | 1  | 1  |
|                 |           | 60         | 3   | 1  | 1  |                           |             | 60         | 1   | 1  | 1  |
|                 |           | 100        | -   | -  | -  |                           |             | 100        | -   | -  | -  |

## TABLE FOR COMPATIBILITY WITH CHEMICAL AGENTS

1 Resistant - 2 Partially Resistant - 3 NOT Resistant

\*\*\*The above data are not binding\*\*\*

| CHEMICAL AGENTS | Conc. % | Temp. (°C) | PVC | PE | PP | CHEMICAL AGENTS                         | Conc. %  | Temp. (°C) | PVC | PE | PP |
|-----------------|---------|------------|-----|----|----|-----------------------------------------|----------|------------|-----|----|----|
| <b>Silver</b>   |         | 25         | 1   | -  | 1  | <b>Stearic Acid</b>                     |          | 25         | 1   | -  | 2  |
| -Cyanide        | all     | 60         | 1   | -  | 1  |                                         | 100      | 60         | 1   | 2  | 2  |
|                 |         | 100        | -   | -  | -  |                                         |          | 100        | -   | -  | -  |
| -Nitrate        | nd      | 25         | 1   | 1  | 1  | <b>Sulphur</b>                          |          | 25         | 1   | -  | 1  |
|                 |         | 60         | 2   | 1  | 1  |                                         | 100      | 60         | 2   | -  | 1  |
|                 |         | 100        | -   | -  | 2  |                                         |          | 100        | -   | -  | -  |
| <b>Sodium</b>   |         | 25         | 1   | 1  | 1  | -liquid Dioxide                         | 100      | 25         | 2   | 1  | -  |
| -Acetate        | 100     | 60         | 1   | 1  | 1  |                                         |          | 60         | 3   | 2  | -  |
|                 |         | 100        | -   | -  | 1  |                                         |          | 100        | -   | -  | -  |
| -Baking Soda    | nd      | 25         | 1   | 1  | 1  | -dry                                    | all      | 25         | 1   | 1  | 1  |
|                 |         | 60         | 1   | 1  | 1  |                                         |          | 60         | 1   | 1  | 1  |
|                 |         | 100        | -   | -  | 1  |                                         |          | 100        | -   | -  | 3  |
| -Bisulfite      | 100     | 25         | 1   | 1  | 1  | -water base solution                    | sat      | 25         | 1   | 1  | 1  |
|                 |         | 60         | 1   | 1  | 1  |                                         |          | 60         | 2   | -  | -  |
|                 |         | 100        | -   | -  | 2  |                                         |          | 100        | -   | -  | -  |
| -Bromide        | sat     | 25         | 1   | -  | 1  | -Trioxide                               | 100      | 25         | 2   | 3  | 3  |
|                 |         | 60         | 1   | -  | 1  |                                         |          | 60         | 2   | 3  | 3  |
|                 |         | 100        | -   | -  | -  |                                         |          | 100        | -   | -  | -  |
| -Carbonate      | sat     | 25         | 1   | 1  | 1  | <b>Sulphuric Acid</b>                   | s10      | 25         | 1   | 1  | 1  |
|                 |         | 60         | 1   | 1  | 1  |                                         |          | 60         | 1   | 1  | 1  |
|                 |         | 100        | -   | -  | -  |                                         |          | 100        | -   | -  | 1  |
| -Cyanide        | all     | 25         | 1   | -  | 1  |                                         | s75      | 25         | 1   | 1  | 1  |
|                 |         | 60         | 1   | -  | 1  |                                         |          | 60         | 2   | 2  | 2  |
|                 |         | 100        | -   | -  | -  |                                         |          | 100        | -   | -  | 2  |
| -Chlorate       | nd      | 25         | 1   | 1  | 1  |                                         | s90      | 25         | 1   | 2  | 1  |
|                 |         | 60         | 2   | 1  | -  |                                         |          | 60         | 2   | 2  | 2  |
|                 |         | 100        | -   | -  | -  |                                         |          | 100        | -   | -  | 3  |
| -Chloride       | dl      | 25         | 1   | 1  | 1  |                                         | s96      | 25         | 2   | 2  | 3  |
|                 |         | 60         | 2   | 1  | 1  |                                         |          | 60         | 3   | 2  | 3  |
|                 |         | 100        | -   | -  | -  |                                         |          | 100        | -   | -  | 3  |
|                 | sat     | 25         | 1   | 1  | 1  | -steaming                               | all      | 25         | 2   | -  | 3  |
|                 |         | 60         | 1   | 1  | 1  |                                         |          | 60         | 3   | -  | 3  |
|                 |         | 100        | -   | -  | 3  |                                         |          | 100        | -   | -  | 3  |
| -Ferrocyanide   | sat     | 25         | 1   | 1  | -  | <b>Sulphuric Acid +Nitric Acid +H2O</b> | 48/49/3  | 25         | 1   | 3  | 3  |
|                 |         | 60         | 1   | 1  | -  |                                         |          | 60         | 2   | 3  | 3  |
|                 |         | 100        | -   | -  | -  |                                         |          | 100        | -   | -  | 3  |
| -Phosphate      | all     | 25         | 1   | -  | 1  |                                         | 50/50/0  | 25         | 2   | 3  | 3  |
|                 |         | 60         | 1   | -  | 1  |                                         |          | 60         | 3   | 3  | 3  |
|                 |         | 100        | -   | -  | 1  |                                         |          | 100        | -   | -  | 3  |
| -triphosphate   | all     | 25         | 1   | 1  | 1  |                                         | 10/20/70 | 25         | 1   | 2  | 2  |
|                 |         | 60         | 1   | 1  | 1  |                                         |          | 60         | 1   | 2  | 2  |
|                 |         | 100        | -   | -  | 1  |                                         |          | 100        | -   | -  | -  |
| -Fluoride       | all     | 25         | 1   | 1  | -  | <b>Tallow Emulsion</b>                  | comm     | 25         | 1   | 1  | 1  |
|                 |         | 60         | 1   | 1  | -  |                                         |          | 60         | 1   | 2  | 2  |
|                 |         | 100        | -   | -  | -  |                                         |          | 100        | -   | -  | -  |
| -Hydroxide      | s60     | 25         | 1   | 1  | 1  | <b>Tannic Acid</b>                      | 10       | 25         | 1   | 1  | -  |
|                 |         | 60         | 1   | 1  | 1  |                                         |          | 60         | 1   | 1  | -  |
|                 |         | 100        | -   | -  | 1  |                                         |          | 100        | -   | -  | -  |
| -hypochlorite   | deb     | 25         | 1   | 1  | 1  | <b>Tartaric Acid</b>                    | all      | 25         | 1   | 1  | 1  |
|                 |         | 60         | 2   | -  | 2  |                                         |          | 60         | 2   | 1  | 1  |
|                 |         | 100        | -   | -  | -  |                                         |          | 100        | -   | -  | -  |
| -Hyposulphite   | nd      | 25         | 1   | -  | 1  | <b>Tetrachloroethane</b>                | nd       | 25         | 3   | 2  | 2  |
|                 |         | 60         | 1   | -  | -  |                                         |          | 60         | 3   | 3  | 3  |
|                 |         | 100        | -   | -  | -  |                                         |          | 100        | -   | -  | -  |
| -Nitrate        | sat     | 25         | 1   | 1  | 1  | <b>Tetrachloroethylene</b>              | nd       | 25         | 3   | 2  | 2  |
|                 |         | 60         | 1   | 1  | 1  |                                         |          | 60         | 3   | 3  | 3  |
|                 |         | 100        | -   | -  | -  |                                         |          | 100        | -   | -  | -  |
| -Perborate      | all     | 25         | 1   | -  | 1  | <b>Tetrahydrofuran</b>                  | all      | 25         | 3   | 2  | 2  |
|                 |         | 60         | 1   | -  | -  |                                         |          | 60         | 3   | 3  | 3  |
|                 |         | 100        | -   | -  | -  |                                         |          | 100        | -   | -  | 3  |
| -Sulfate        | dl      | 25         | 1   | -  | 1  | <b>Thionyl Chloride</b>                 |          | 25         | 3   | 3  | 3  |
|                 |         | 60         | 1   | -  | 1  |                                         |          | 60         | -   | -  | -  |
|                 |         | 100        | -   | -  | -  |                                         |          | 100        | -   | -  | -  |
|                 | sat     | 25         | 1   | 1  | 1  | <b>Thiophene</b>                        | 100      | 25         | 3   | 2  | 2  |
|                 |         | 60         | 1   | 1  | 1  |                                         |          | 60         | 3   | 2  | 3  |
|                 |         | 100        | -   | -  | -  |                                         |          | 100        | -   | -  | -  |
| -Sulfite        | sat     | 25         | 1   | -  | 1  | <b>Tin</b>                              | sat      | 25         | 1   | 1  | 1  |
|                 |         | 60         | 1   | -  | 1  | -stannic chloride                       |          | 60         | 1   | 1  | 1  |
|                 |         | 100        | -   | -  | -  |                                         |          | 100        | -   | -  | -  |
| -Sulphur        | dl      | 25         | 1   | 1  | 1  | -stannous chloride                      | dl       | 25         | 1   | 1  | 1  |
|                 |         | 60         | 2   | 1  | 1  |                                         |          | 60         | 1   | 1  | 1  |
|                 |         | 100        | -   | -  | -  |                                         |          | 100        | -   | -  | -  |
|                 | sat     | 25         | 1   | 1  | 1  |                                         |          | 25         | 1   | 1  | 1  |
|                 |         | 60         | 1   | 1  | 1  |                                         |          | 60         | 1   | 1  | 1  |
|                 |         | 100        | -   | -  | -  |                                         |          | 100        | -   | -  | -  |



## TABLE FOR COMPATIBILITY WITH CHEMICAL AGENTS

1 Resistant - 2 Partially Resistant - 3 NOT Resistant

\*\*\*The above data are not binding\*\*\*

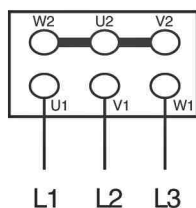
| CHEMICAL AGENTS                 | Conc. % | Temp. (°C)      | PVC         | PE          | PP          | CHEMICAL AGENTS | Conc. % | Temp. (°C)      | PVC         | PE          | PP          |
|---------------------------------|---------|-----------------|-------------|-------------|-------------|-----------------|---------|-----------------|-------------|-------------|-------------|
| <b>Toluene</b>                  | 100     | 25<br>60<br>100 | 3<br>3<br>- | 2<br>3<br>- | 2<br>3<br>3 | <b>Zinc</b>     |         | 25              | 1           | -           | -           |
| <b>Toluic Acid</b>              | 50      | 25<br>60<br>100 | 2<br>3<br>- | -<br>-<br>- | -<br>-<br>- | -Cyanide        | all     | 60<br>100       | 1<br>-      | -<br>-      | -<br>-      |
| <b>Trichloride Antimony</b>     | 100     | 25<br>60<br>100 | 1<br>1<br>- | 1<br>1<br>- | 1<br>1<br>- | -Chloride       | dl      | 25<br>60<br>100 | 1<br>1<br>- | 1<br>1<br>- | 1<br>1<br>- |
| <b>Trichloroacetic Acid</b>     | s50     | 25<br>60<br>100 | 1<br>3<br>- | 1<br>2<br>- | 1<br>1<br>- | -Chromate       | sat     | 25<br>60<br>100 | 1<br>1<br>- | 1<br>1<br>- | 1<br>1<br>2 |
| <b>Trichloroethylene</b>        | 100     | 25<br>60<br>100 | 3<br>3<br>- | 2<br>2<br>- | 3<br>3<br>- | -Nitrate        | nd      | 25<br>60<br>100 | 1<br>1<br>- | -<br>-<br>- | 1<br>1<br>- |
| <b>Triethanolamine</b>          | 100     | 25<br>60<br>100 | 2<br>3<br>- | 1<br>-<br>- | 1<br>-<br>- | -Sulfate        | dl      | 25<br>60<br>100 | 1<br>1<br>- | 1<br>1<br>- | 1<br>1<br>- |
| <b>Turpentine</b>               | 100     | 25<br>60<br>100 | 2<br>2<br>- | 2<br>3<br>- | 3<br>3<br>- |                 | sat     | 25<br>60<br>100 | 1<br>1<br>- | 1<br>1<br>- | 1<br>1<br>- |
| <b>Urea</b>                     |         | 25              | 1           | 1           | 1           |                 |         |                 |             |             |             |
| -water base solution            | 10      | 60<br>100       | 2<br>-      | 1<br>-      | 1<br>-      |                 |         |                 |             |             |             |
|                                 | 33      | 25<br>60<br>100 | 1<br>2<br>- | 1<br>1<br>- | 1<br>1<br>- |                 |         |                 |             |             |             |
| <b>Uric Acid</b>                | 10      | 25<br>60<br>100 | 1<br>2<br>- | -<br>-<br>- | -<br>-<br>- |                 |         |                 |             |             |             |
| <b>Urine</b>                    | nd      | 25<br>60<br>100 | 3<br>2<br>- | 1<br>1<br>- | 1<br>1<br>- |                 |         |                 |             |             |             |
| <b>Vinyl Acetate</b>            | nd      | 25<br>60<br>100 | 3<br>3<br>- | -<br>-<br>- | -<br>-<br>- |                 |         |                 |             |             |             |
| <b>Water</b>                    |         | 25              | 1           | 1           | 1           |                 |         |                 |             |             |             |
| -purified                       | 100     | 60<br>100       | 1<br>-      | 1<br>-      | 1<br>1      |                 |         |                 |             |             |             |
| -sea water                      | 100     | 25<br>60<br>100 | 1<br>1<br>- | 1<br>1<br>- | 1<br>1<br>1 |                 |         |                 |             |             |             |
| -distilled                      | 100     | 25<br>60<br>100 | 1<br>1<br>- | 1<br>1<br>- | 1<br>1<br>1 |                 |         |                 |             |             |             |
| -rain water                     | 100     | 25<br>60<br>100 | 1<br>1<br>- | 1<br>1<br>- | 1<br>1<br>1 |                 |         |                 |             |             |             |
| -drinking water                 | 100     | 25<br>60<br>100 | 1<br>1<br>- | 1<br>1<br>- | 1<br>1<br>1 |                 |         |                 |             |             |             |
| <b>Water base solution soap</b> | alto    | 25<br>60<br>100 | 1<br>2<br>- | -<br>-<br>- | 1<br>-<br>- |                 |         |                 |             |             |             |
| <b>Whisky</b>                   | comm    | 25<br>60<br>100 | 1<br>1<br>- | -<br>-<br>- | 1<br>-<br>- |                 |         |                 |             |             |             |
| <b>Wine</b>                     | comm    | 25<br>60<br>100 | 1<br>1<br>- | 1<br>-<br>- | 1<br>1<br>- |                 |         |                 |             |             |             |
| <b>Vinegar</b>                  | comm    | 25<br>60<br>100 | 1<br>2<br>- | 1<br>1<br>- | 1<br>1<br>- |                 |         |                 |             |             |             |

## Schema collegamento motore Motor connection diagram

### Motori a singola velocità Single speed motors

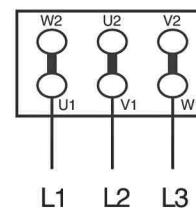
collegamento a stella Y  
connection star Y

Tensione più alta in targa  
Highest voltage on plate



collegamento a triangolo  $\Delta$   
connection delta  $\Delta$

Tensione più bassa in targa  
Lower voltage on plate

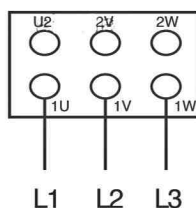


### Motori a doppia velocità Double speed motors

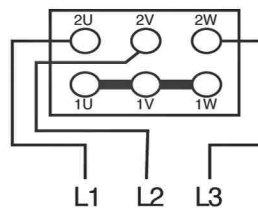
Dahlander  
singolo avvolgimento 6 morsetti

Dahlander  
single winding 6 terminals

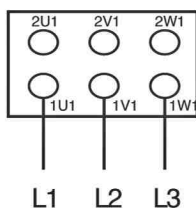
lower speed



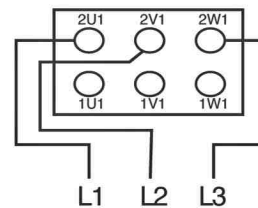
higher speed



lower speed



higher speed



Due avvolgimenti separati 6 morsetti  
Two speed windings 6 terminals