

## 'O' RING FLUID COMPATIBILITY GUIDE - A's

| CHEMICAL/<br>MEDIA     | PERFLUORO -<br>ELASTOMER | VITON <sup>®</sup><br>ETP | AFLAS <sup>®</sup><br>TFE/P | VITON <sup>®</sup><br>FKM | EPDM<br>P.C. | BUNA-N<br>NBR | SILICONE | FLUORO-<br>SILICONE |
|------------------------|--------------------------|---------------------------|-----------------------------|---------------------------|--------------|---------------|----------|---------------------|
| Abietic Acid           | 1                        | -                         | -                           | -                         | -            | -             | -        | -                   |
| Acetaldehyde           | 2                        | 4                         | 4                           | 4                         | 2            | 4             | 2        | 4                   |
| Acetamide              | 1                        | 3                         | 2                           | 3                         | 1            | 1             | 2        | 1                   |
| Acetanilide            | 1                        | -                         | -                           | -                         | -            | -             | -        | -                   |
| Acetic Acid, 30%       | 1                        | 2                         | -                           | 3                         | 1            | 2             | 1        | 2                   |
| Acetic Acid, Glacial   | 1                        | 2                         | 3                           | 4                         | 2            | 2             | 2        | 4                   |
| Acetic Anhydride       | 1                        | 2                         | 2                           | 4                         | 2            | 4             | 3        | 4                   |
| Acetoacetic Acid       | 1                        | -                         | -                           | -                         | -            | -             | -        | -                   |
| Acetone                | 1                        | 3                         | 4                           | 4                         | 1            | 4             | 3        | 4                   |
| Acetone Cyanohydrin    | 1                        | -                         | -                           | -                         | -            | -             | -        | -                   |
| Acetonitrile           | 1                        | 1                         | 1                           | 1                         | 1            | 3             | -        | -                   |
| Acetophenetidin        | 1                        | -                         | -                           | -                         | -            | -             | -        | -                   |
| Acetophenone           | 1                        | 4                         | 4                           | 4                         | 1            | 4             | 4        | 4                   |
| Acetyl Bromide         | 1                        | -                         | -                           | -                         | -            | -             | -        | -                   |
| Acetylene              | 1                        | 1                         | 1                           | 1                         | 1            | 1             | 2        | -                   |
| Acetylene Tetrabromide | 1                        | 1                         | 1                           | 1                         | 1            | 4             | 4        | 2                   |

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| Aconitic<br>Acid         | 1                        | -                         | -                           | -                         | -            | -             | -        | -                   |
| Acridine                 | 1                        | -                         | -                           | -                         | -            | -             | -        | -                   |
| Acrolein                 | 1                        | -                         | -                           | -                         | -            | -             | -        | -                   |
| Acrylic<br>Acid          | 1                        | 4                         | 4                           | 4                         | 3            | 2             | -        | -                   |
| Acrylonitrile            | 1                        | 3                         | 2                           | 3                         | 4            | 4             | 4        | 4                   |
| Adipic<br>Acid           | 1                        | 2                         | 2                           | 2                         | 2            | 1             | -        | 1                   |
| Aero<br>Lubriplate       | 1                        | 1                         | 1                           | 1                         | 4            | 1             | 2        | 1                   |
| Aero<br>Shell 17 Grease  | 1                        | 1                         | 1                           | 1                         | 4            | 1             | 2        | 1                   |
| Aero<br>Shell 1AC Grease | 1                        | 1                         | 1                           | 1                         | 4            | 1             | 2        | 1                   |
| Aero<br>Shell 750        | 1                        | 1                         | 1                           | 1                         | 4            | 2             | 4        | 2                   |
| Aero<br>Shell 7A Grease  | 1                        | 1                         | 1                           | 1                         | 4            | 2             | 2        | 1                   |
| AEROSAFE<br>2300         | 1                        | 4                         | 3                           | 4                         | 1            | 4             | 3        | 3                   |
| AEROSAFE                 | 1                        | 4                         | 2                           | 4                         | 1            | 4             | 3        | 3                   |

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| Aerozene<br>50 (50%<br>Hydrazine, 50%<br>UDMH) | 2                        | 4                         | 2                           | 4                         | 1            | 3             | 4        | 4                   |
| Air,<br>Below 200° F                           | 1                        | 1                         | 1                           | 1                         | 1            | 1             | 1        | 1                   |
| Alkanesulphonic<br>Acid, Mixed                 | 1                        | -                         | -                           | -                         | -            | -             | -        | -                   |
| Alkazene                                       | 1                        | 2                         | 2                           | 2                         | 4            | 4             | 4        | 2                   |
| Allyl<br>Chloride                              | 1                        | 2                         | 2                           | 2                         | 1            | 2             | -        | -                   |
| Aluminum<br>Acetate                            | 1                        | 3                         | 1                           | 4                         | 1            | 2             | 4        | 4                   |
| Aluminum<br>Bromide                            | 1                        | 1                         | 1                           | 1                         | 1            | 1             | 1        | 1                   |
| Aluminum<br>Chlorate                           | 1                        | -                         | -                           | -                         | -            | -             | -        | -                   |
| Aluminum<br>Chloride                           | 1                        | 1                         | 1                           | 1                         | 1            | 1             | 2        | 1                   |
| Aluminum<br>Ethylate                           | 1                        | -                         | -                           | -                         | -            | -             | -        | -                   |
| Aluminum<br>Fluoride                           | 1                        | 1                         | 1                           | 1                         | 1            | 1             | 2        | 1                   |
| Aluminum<br>Fluorosilicate                     | 1                        | -                         | -                           | -                         | -            | -             | -        | -                   |

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|---------------------------------------|--------------------------|---------------------------|-----------------------------|---------------------------|--------------|---------------|----------|---------------------|
| Aluminum Hydroxide                    | 1                        | 2                         | 1                           | 2                         | 2            | 2             | -        | -                   |
| Aluminum Nitrate                      | 1                        | 1                         | 1                           | 1                         | 1            | 2             | 2        | -                   |
| Aluminum Oxalate                      | 1                        | -                         | -                           | -                         | -            | -             | -        | -                   |
| Aluminum Phosphate                    | 1                        | 1                         | 1                           | 1                         | 1            | 1             | 1        | -                   |
| Aluminum Potassium Sulfate            | 1                        | -                         | -                           | -                         | -            | -             | -        | -                   |
| Aluminum Salts                        | 1                        | 1                         | 1                           | 1                         | 1            | 1             | 1        | 1                   |
| Aluminum Sodium Sulfate               | 1                        | -                         | -                           | -                         | -            | -             | -        | -                   |
| Aluminum Sulfate                      | 1                        | 1                         | 1                           | 1                         | 1            | 1             | 1        | 1                   |
| AMBREX 33                             | 1                        | 1                         | 1                           | 1                         | 4            | 1             | 4        | 3                   |
| AMBREX 830                            | 1                        | 1                         | 1                           | 1                         | 3            | 1             | 2        | 1                   |
| Amines Mixed (Eg: Allyl, Ethyl, Etc.) | 1                        | 4                         | 2                           | 4                         | 2            | 4             | 2        | 4                   |
| Aminoanthraqui-                       | 1                        | -                         | -                           | -                         | -            | -             | -        | -                   |

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| Ammonia<br>+ Lithium Metal<br>Solution | 4                        | 4                         | 4                           | 4                         | 2            | 4             | 4        | 4                   |
| Ammonia<br>Gas, Cold                   | 1                        | 4                         | 1                           | 4                         | 1            | 1             | 1        | 4                   |
| Ammonia<br>Gas, Hot                    | 1                        | 4                         | 2                           | 4                         | 2            | 4             | 1        | 4                   |
| Ammonia,<br>Liquid                     | 1                        | 4                         | 3                           | 4                         | 1            | 2             | 2        | 4                   |
| Ammonium<br>Acetate                    | 1                        | -                         | -                           | -                         | -            | -             | -        | -                   |
| Ammonium<br>Arsenate                   | 1                        | -                         | -                           | -                         | -            | -             | -        | -                   |
| Ammonium<br>Benzoate                   | 1                        | -                         | -                           | -                         | -            | -             | -        | -                   |
| Ammonium<br>Bicarbonate                | 1                        | -                         | -                           | -                         | -            | -             | -        | -                   |
| Ammonium<br>Bifluoride                 | 1                        | -                         | -                           | -                         | -            | -             | -        | -                   |
| Ammonium<br>Bromide                    | 1                        | -                         | -                           | -                         | -            | -             | -        | -                   |
| Ammonium<br>Carbamate                  | 1                        | -                         | -                           | -                         | -            | -             | -        | -                   |
| Ammonium<br>Carbonate                  | 1                        | 3                         | 1                           | 3                         | 1            | 4             | -        | -                   |

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| Ammonium Chloride         | 1                        | 1                         | -                           | 1                         | 1            | 1             | -        | -                   |
| Ammonium Citrate, Dibasic | 1                        | -                         | -                           | -                         | -            | -             | -        | -                   |
| Ammonium Dichromate       | 1                        | -                         | -                           | -                         | -            | -             | -        | -                   |
| Ammonium Fluoride         | 1                        | -                         | -                           | -                         | -            | -             | -        | -                   |
| Ammonium Fluorosilicate   | 1                        | -                         | -                           | -                         | -            | -             | -        | -                   |
| Ammonium Formate          | 1                        | -                         | -                           | -                         | -            | -             | -        | -                   |
| Ammonium Hydroxide, Conc. | 1                        | 1                         | 1                           | 2                         | 1            | 4             | 1        | 1                   |
| Ammonium Iodide           | 1                        | -                         | -                           | -                         | -            | -             | -        | -                   |
| Ammonium Molybdate        | 1                        | -                         | -                           | -                         | -            | -             | -        | -                   |
| Ammonium Nitrate          | 1                        | 1                         | 1                           | 1                         | 1            | 1             | 2        | -                   |
| Ammonium Oxalate          | 1                        | -                         | -                           | -                         | -            | -             | -        | -                   |
| Ammonium Perchlorate      | 1                        | -                         | -                           | -                         | -            | -             | -        | -                   |

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| Ammonium<br>Persulfate              | 1                        | 3                         | 1                           | 3                         | 1            | 4             | -        | 1                   |
| Ammonium<br>Phosphate, Diba-<br>sic | 1                        | 1                         | 1                           | 1                         | 1            | 1             | 1        | -                   |
| Ammonium<br>Phosphite               | 1                        | -                         | -                           | -                         | -            | -             | -        | -                   |
| Ammonium<br>Picrate                 | 1                        | -                         | -                           | -                         | -            | -             | -        | -                   |
| Ammonium<br>Polysulfide             | 1                        | -                         | -                           | -                         | -            | -             | -        | -                   |
| Ammonium<br>Salts                   | 1                        | 3                         | 1                           | 3                         | 1            | 1             | 1        | 3                   |
| Ammonium<br>Sulfamate               | 1                        | -                         | -                           | -                         | -            | -             | -        | -                   |
| Ammonium<br>Sulfate                 | 1                        | 1                         | 1                           | 1                         | 1            | 1             | -        | -                   |
| Ammonium<br>Sulfide                 | 1                        | 1                         | 1                           | 1                         | 1            | 1             | -        | -                   |
| Ammonium<br>Sulfite                 | 1                        | -                         | -                           | -                         | -            | -             | -        | -                   |
| Ammonium<br>Thiocyanate             | 1                        | -                         | -                           | -                         | -            | -             | -        | -                   |
| Ammonium<br>Thioglycollate          | 1                        | -                         | -                           | -                         | -            | -             | -        | -                   |

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| Ammonium<br>Thiosulfate        | 1                        | -                         | -                           | -                         | -            | -             | -        | -                   |
| Ammonium<br>Tungstate          | 1                        | -                         | -                           | -                         | -            | -             | -        | -                   |
| Ammonium<br>Valerate           | 1                        | -                         | -                           | -                         | -            | -             | -        | -                   |
| Amyl<br>Acetate                | 1                        | 4                         | 4                           | 4                         | 1            | 4             | 4        | 4                   |
| Amyl<br>Alcohol                | 1                        | 1                         | 1                           | 1                         | 1            | 2             | 4        | 1                   |
| Amyl<br>Borate                 | 1                        | 1                         | 1                           | 1                         | 4            | 1             | -        | -                   |
| Amyl<br>Chloride               | 1                        | 1                         | 1                           | 1                         | 4            | 1             | 4        | 2                   |
| Amyl<br>Chloronaphtha-<br>lene | 1                        | 1                         | 2                           | 1                         | 4            | 4             | 4        | 2                   |
| Amyl<br>Naphthalene            | 1                        | 1                         | 2                           | 1                         | 4            | 4             | 4        | 1                   |
| Amyl<br>Nitrate                | 1                        | -                         | -                           | -                         | -            | -             | -        | -                   |
| Amyl<br>Nitrite                | 1                        | -                         | -                           | -                         | -            | -             | -        | -                   |
| Amyl<br>Propionate             | 1                        | -                         | -                           | -                         | -            | -             | -        | -                   |

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| Amylcinnamic<br>Aldehyde   | 1                        | -                         | -                           | -                         | -            | -             | -        | -                   |
| AN-0-3<br>Grade M          | 1                        | 1                         | 1                           | 1                         | 4            | 1             | 2        | 1                   |
| AN-0-366                   | 1                        | 1                         | 1                           | 1                         | 4            | 1             | 4        | 1                   |
| AN-0-6                     | 1                        | 1                         | 1                           | 1                         | 4            | 1             | 4        | 1                   |
| AN-VV-0-366B<br>Hydraulic  | 1                        | 1                         | 1                           | 1                         | 4            | 1             | 4        | 1                   |
| Anderol<br>(Diester)       | 1                        | 1                         | 2                           | 1                         | 4            | 2             | 4        | 2                   |
| ANG-25<br>(Diester Base)   | 1                        | 1                         | 2                           | 1                         | 4            | 2             | 2        | 2                   |
| ANG-25<br>(Glycerol Ester) | 1                        | 1                         | 2                           | 1                         | 1            | 2             | 2        | 2                   |
| Aniline                    | 1                        | 1                         | 2                           | 2                         | 2            | 4             | 4        | 3                   |
| Aniline<br>Dyes            | 1                        | 2                         | 1                           | 2                         | 2            | 4             | 3        | 2                   |
| Aniline<br>Hydrochloride   | 1                        | 2                         | 1                           | 2                         | 3            | 4             | 4        | 2                   |
| Aniline<br>Oils            | 1                        | 3                         | 2                           | 3                         | 2            | 4             | 4        | 3                   |
| Animal<br>Fats (Lard)      | 1                        | 1                         | 1                           | 1                         | 2            | 1             | 2        | 1                   |

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| Anisole                   | 1                        | -                         | -                           | -                         | -            | -             | -        | -                   |
| Anisoyl<br>Chloride       | 1                        | -                         | -                           | -                         | -            | -             | -        | -                   |
| Ansul<br>Ether 161 or 181 | 1                        | 3                         | 1                           | 4                         | 3            | 3             | 4        | 3                   |
| Anthracene                | 1                        | -                         | -                           | -                         | -            | -             | -        | -                   |
| Anthranilic<br>Acid       | 1                        | -                         | -                           | -                         | -            | -             | -        | -                   |
| Anthraquinone             | 1                        | -                         | -                           | -                         | -            | -             | -        | -                   |
| Antimony<br>Pentachloride | 1                        | -                         | -                           | -                         | -            | -             | -        | -                   |
| Antimony<br>Pentafluoride | 2                        | -                         | -                           | -                         | -            | -             | -        | -                   |
| Antimony<br>Sulfate       | 1                        | -                         | -                           | -                         | -            | -             | -        | -                   |
| Antimony<br>Tribromide    | 1                        | -                         | -                           | -                         | -            | -             | -        | -                   |
| Antimony<br>Trichloride   | 1                        | -                         | -                           | -                         | -            | -             | -        | -                   |
| Antimony<br>Trifluoride   | 2                        | -                         | -                           | -                         | -            | -             | -        | -                   |
| Antimony<br>Trioxide      | 1                        | 1                         | 1                           | 1                         | 1            | 1             | -        | -                   |

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| Aqua Regia            | 1                        | 2                         | 3                           | 2                         | 3            | 4             | 4        | 3                   |
| Arachidic Acid        | 1                        | -                         | -                           | -                         | -            | -             | -        | -                   |
| Argon                 | 1                        | 1                         | 1                           | 1                         | 1            | 1             | 2        | 2                   |
| AROCLOR 1248          | 1                        | 1                         | 1                           | 1                         | 2            | 3             | 3        | 2                   |
| AROCLOR 1254          | 1                        | 1                         | 1                           | 1                         | 2            | 4             | 3        | 1                   |
| AROCLOR 1260          | 1                        | 1                         | 1                           | 1                         | 2            | 1             | 1        | 1                   |
| Aromatic Fuels        | 1                        | 1                         | 2                           | 1                         | 4            | 2             | 4        | 2                   |
| Arsenic Acid          | 1                        | 1                         | 1                           | 1                         | 1            | 1             | 1        | 1                   |
| Arsenic Pentafluoride | -                        | -                         | -                           | -                         | -            | -             | -        | -                   |
| Arsenic Trichloride   | 1                        | 4                         | 4                           | 4                         | 4            | 1             | -        | -                   |
| Arsenic Trioxide      | 1                        | -                         | -                           | -                         | -            | -             | -        | -                   |
| Arsenic Trisulfide    | 1                        | -                         | -                           | -                         | -            | -             | -        | -                   |
| Arsine                | 1                        | -                         | -                           | -                         | -            | -             | -        | -                   |

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| Ascorbic Acid           | 1                        | -                         | -                           | -                         | -            | -             | -        | -                   |
| Askarel Transformer Oil | 1                        | 1                         | 1                           | 1                         | 4            | 2             | 4        | 2                   |
| Aspartic Acid           | 1                        | -                         | -                           | -                         | -            | -             | -        | -                   |
| Asphalt                 | 1                        | 1                         | -                           | 1                         | 4            | 2             | 4        | 2                   |
| Aspirin                 | 1                        | -                         | -                           | -                         | -            | -             | -        | -                   |
| ASTM Oil No.1           | 1                        | 1                         | 1                           | 1                         | 4            | 1             | 1        | 1                   |
| ASTM Oil No.2           | 1                        | 1                         | 2                           | 1                         | 4            | 1             | 4        | 1                   |
| ASTM Oil No.3           | 1                        | 1                         | 3                           | 1                         | 4            | 1             | 3        | 1                   |
| ASTM Oil No.4           | 1                        | 1                         | 2                           | 1                         | 4            | 2             | 4        | 2                   |
| ASTM Oil No.5           | 1                        | 1                         | 1                           | 1                         | 4            | 1             | -        | -                   |
| ASTM Reference Fuel A   | 1                        | 1                         | 3                           | 1                         | 4            | 1             | 4        | 1                   |
| ASTM Reference Fuel B   | 1                        | 1                         | 4                           | 1                         | 4            | 1             | 4        | 1                   |
| ASTM                    | 1                        | 1                         | 4                           | 2                         | 4            | 2             | 4        | 2                   |

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| ASTM<br>Reference Fuel D       | 1                        | 1                         | 4                           | 1                         | 4            | 2             | -        | -                   |
| AUREX<br>903R                  | 1                        | 1                         | 1                           | 1                         | 4            | 1             | 4        | 4                   |
| Automatic<br>Transmission Flu- | 1                        | 1                         | 1                           | 1                         | 4            | 1             | 4        | -                   |
| Automotive                     | 1                        | 2                         | 1                           | 4                         | 1            | 3             | 3        | 4                   |
| AXAREL                         | 1                        | -                         | -                           | -                         | -            | -             | -        | -                   |
| Azobenzene                     | 1                        | -                         | -                           | -                         | -            | -             | -        | -                   |

### GUIDE ONLY

1 - recommended 2 - probably satisfactory 3 - marginal 4 - not recommended