

‘O’ RING FLUID COMPATIBILITY GUIDE - M’s

| CHEMICAL/ MEDIA | PERFLUORO - ELASTOMER | VITON [®] ETP | AFLAS [®] TFE/P | VITON [®] FKM | EPDM P.C. | BUNA-N NBR | SILICONE | FLURO- SILICONE |
|-----------------------------------|--------------------------|---------------------------|-----------------------------|---------------------------|--------------|---------------|----------|--------------------|
| m-Chloroaniline | 1 | 3 | 2 | 3 | 2 | 4 | – | – |
| m- Chlorobenzotri- fluoride | 1 | 1 | – | 1 | 4 | 4 | 4 | 2 |
| Magnesium Chloride | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Magnesium Hydroxide | 1 | 2 | 1 | 2 | 1 | 2 | – | – |
| Magnesium Salts | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Magnesium Sulfate | 1 | 1 | – | 1 | 1 | 1 | 1 | 1 |
| Magnesium Sulfite | 1 | 1 | – | 1 | 1 | 1 | 1 | 1 |
| MALATHION | 1 | 1 | – | 1 | 4 | 2 | 4 | 2 |
| Maleic Acid | 1 | 1 | 1 | 1 | 4 | 4 | – | – |
| Maleic Anhydride | 1 | 1 | 1 | 1 | 4 | 4 | – | – |
| Maleic Hydrazide | 1 | – | – | – | – | – | – | – |
| Malic Acid | 1 | 1 | 1 | 1 | 4 | 1 | 2 | 1 |
| Mandelic Acid | 1 | – | – | – | – | – | – | – |

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|-------------------------------------|--------------------------|---------------------------|-----------------------------|---------------------------|--------------|---------------|----------|---------------------|
| Manganese Acetate | 1 | - | - | - | - | - | - | - |
| Manganese Carbonate | 1 | - | - | - | - | - | - | - |
| Manganese Dioxide | 1 | - | - | - | - | - | - | - |
| Manganese Gluconate | 1 | - | - | - | - | - | - | - |
| Manganese Hypophosphite | 1 | - | - | - | - | - | - | - |
| Manganese Linoleate | 1 | - | - | - | - | - | - | - |
| Manganous Chloride | 1 | - | - | - | - | - | - | - |
| Manganous Phosphate | 1 | - | - | - | - | - | - | - |
| Manganous Sulfate, Aqueous | 1 | - | - | - | - | - | - | - |
| Mannitol | 1 | - | - | - | - | - | - | - |
| MEA (Ethanolamine) | 1 | 4 | - | 4 | 2 | 4 | 2 | 4 |
| Mercaptobenzo- thiazole (MBT) | 1 | 1 | 1 | 1 | 1 | 3 | - | - |

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| Mercuric Acetate | 1 | - | - | - | - | - | - | - |
| Mercuric Chloride | 1 | 1 | 1 | 1 | 1 | 1 | - | - |
| Mercuric Cyanide | 1 | - | - | - | - | - | - | - |
| Mercuric Iodide | 1 | - | - | - | - | - | - | - |
| Mercuric Nitrate | 1 | - | - | - | - | - | - | - |
| Mercuric Sulfate | 1 | - | - | - | - | - | - | - |
| Mercurous Nitrate, Hydrated | 1 | - | - | - | - | - | - | - |
| Mercury | 1 | 1 | 1 | 1 | 1 | 1 | - | - |
| Mercury Fulminate | 1 | - | - | - | - | - | - | - |
| Mercury Vapor | 1 | 1 | 1 | 1 | 1 | 1 | - | - |
| Mesityl Oxide | 1 | 4 | 4 | 4 | 2 | 4 | 4 | 4 |
| Metaldehyde | 1 | - | - | - | - | - | - | - |

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|---------------------------------|--------------------------|---------------------------|-----------------------------|---------------------------|--------------|---------------|----------|---------------------|
| Methacrylic Acid | 1 | 3 | 2 | 3 | 2 | 4 | 4 | 4 |
| Methane | 1 | 1 | 2 | 1 | 4 | 1 | 4 | 2 |
| Methanethiol | 1 | – | – | – | – | – | – | – |
| Methoxychlor | 1 | – | – | – | – | – | – | – |
| Methyl Abietate | 1 | – | – | – | – | – | – | – |
| Methyl Acetate | 1 | 4 | 4 | 4 | 2 | 4 | 4 | 4 |
| Methyl Acetoacetate | 1 | 4 | 4 | 4 | 2 | 4 | 2 | 4 |
| Methyl Acrylate | 1 | 4 | 4 | 4 | 2 | 4 | 4 | 4 |
| Methyl Alcohol (Methanol) | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 |
| Methyl Anthranilate | 1 | – | – | – | – | – | – | – |
| Methyl Benzoate | 1 | 2 | 2 | 1 | 4 | 4 | 4 | 1 |
| Methyl Bromide | 1 | 1 | 2 | 1 | 4 | 2 | – | 1 |
| Methyl Butyl Ketone | 1 | 4 | 4 | 4 | 1 | 4 | 4 | 4 |

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|----------------------|--------------------------|---------------------------|-----------------------------|---------------------------|--------------|---------------|----------|--------------------|
| Methyl Carbonate | 1 | 1 | 2 | 1 | 4 | 4 | 4 | 2 |
| Methyl CELLOSOLVE | 1 | 4 | 1 | 4 | 2 | 3 | 4 | 4 |
| Methyl Cellulose | 1 | 4 | 1 | 4 | 2 | 2 | 2 | 4 |
| Methyl Chloride | 1 | 1 | 4 | 2 | 3 | 4 | 4 | 2 |
| Methyl Chloroacetate | 1 | - | - | - | - | - | - | - |
| Methyl Chloroform | 1 | 2 | 4 | 2 | 4 | 4 | 4 | 2 |
| Methyl Chloroformate | 1 | 1 | 1 | 1 | 4 | 4 | 4 | 2 |
| Methyl Chlorosilane | 1 | - | - | - | - | - | - | - |
| Methyl Cyclohexanone | 1 | - | - | - | - | - | - | - |
| Methyl Ether | 1 | 1 | 4 | 1 | 2 | 1 | 1 | 1 |
| Methyl Ethyl Ketone | 1 | 2 | 4 | 4 | 1 | 4 | 4 | 4 |

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| Methyl Ethyl Ketone Per- oxide | 1 | 4 | – | 4 | 4 | 4 | 2 | 4 |
| Methyl Formate | 1 | 4 | 4 | 4 | 2 | 4 | – | – |
| Methyl Hexyl Ketone | 1 | – | – | – | – | – | – | – |
| Methyl Iodide | 1 | – | – | – | – | – | – | – |
| Methyl Isobutyl Ketone (MIBK) | 1 | 2 | 4 | 4 | 3 | 4 | 4 | 4 |
| Methyl Isocyanate | 1 | – | – | – | – | – | – | – |
| Methyl Isopropyl Ketone | 1 | 4 | – | 4 | 2 | 4 | 4 | 4 |
| Methyl Lactate | 1 | – | – | – | – | – | – | – |
| Methyl Mercaptan | 1 | – | – | – | 1 | – | – | – |
| Methyl Methacrylate | 1 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| Methyl n-Amylketone | 1 | – | – | – | – | – | – | – |

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| Methyl Oleate | 1 | 1 | – | 1 | 2 | 4 | – | 2 |
| Methyl Phenylacetate | 1 | – | – | – | – | – | – | – |
| Methyl Salicylate | 1 | – | – | – | 2 | 4 | – | – |
| Methyl Tertiary Butyl Ether (MTBE) | 1 | 2 | 2 | 4 | 3 | 3 | – | – |
| Methylacetopho- none | 1 | – | – | – | – | – | – | – |
| Methylal | 1 | – | – | – | – | – | – | – |
| Methylallyl Chloride | 1 | – | – | – | – | – | – | – |
| Methylamine | 1 | – | – | – | – | – | – | – |
| Methylamyl Acetate | 1 | – | – | – | – | – | – | – |
| Methylamyl Alcohol | 1 | – | – | – | – | – | – | – |
| Methylbenzyl Alcohol | 1 | – | – | – | – | – | – | – |
| Methylcyclopen- tane | 1 | 2 | 2 | 1 | 4 | 4 | 4 | 2 |
| Methylene Bromide | 1 | 1 | – | 1 | 4 | 2 | – | 1 |

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| Methylene Chloride | 1 | 2 | – | 2 | 4 | 4 | 4 | 2 |
| Methylene Iodide | 1 | – | – | – | – | – | – | – |
| Methylpentadiene | 1 | – | – | – | – | – | – | – |
| Methylpyrrolidine | 1 | – | – | – | – | – | – | – |
| Methylsulfuric Acid | 1 | – | – | – | – | – | – | – |
| MIL-F-25558 (RJ-1) | 1 | 1 | 1 | 1 | 4 | 1 | 4 | 1 |
| MIL-F-25656 (JP-6) | 1 | 1 | – | 1 | 4 | 1 | 4 | 2 |
| MIL-F-81912 (JP-9) | 1 | 1 | – | 1 | 4 | 3 | 4 | 2 |
| MIL-F-82522 (RJ-4) | 1 | 1 | – | 1 | 4 | 2 | 4 | 1 |
| MIL-H-8446 (MLO-8515) | 1 | 1 | 1 | 1 | 4 | 2 | 4 | 1 |
| MIL-L-23699 LUBRICANTS | 1 | 1 | 1 | 1 | 4 | 2 | 4 | 2 |
| MIL-L-7808 LUBRICANTS | 1 | 1 | 1 | 1 | 4 | 2 | 4 | 2 |

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| MIL-R-25576 (RP-1) | 1 | 1 | 1 | 1 | 4 | 1 | 4 | 1 |
| MIL-S-3136 Type I Fuel | 1 | 1 | – | 1 | 4 | 1 | 4 | 1 |
| MIL-S-3136 Type II Fuel | 1 | 1 | – | 1 | 4 | 2 | 4 | 2 |
| MIL-S-3136 Type III Fuel | 1 | 1 | – | 1 | 4 | 2 | 4 | 2 |
| MIL-S-3136 Type IV Oil, High Swell | 1 | 1 | – | 1 | 4 | 1 | 2 | 1 |
| MIL-S-3136 Type IV Oil, Low Swell | 1 | 1 | – | 1 | 4 | 1 | 3 | 1 |
| MIL-S-3136 Type V Oil, Medi- um Swell | 1 | 1 | – | 1 | 4 | 1 | 2 | 1 |
| MIL-T-5624 (JP-3, JP-4, JP-5) | 1 | 1 | 2 | 1 | 4 | 1 | 4 | 2 |
| MIL-T-83133 (JP-8) | 1 | 1 | 2 | 1 | 4 | 1 | 4 | 2 |
| Milk | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Mineral Oil | 1 | 1 | 1 | 1 | 3 | 1 | 2 | 1 |

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| Mixed Acid Etchants | 1 | 2 | 3 | 3 | 4 | 4 | 4 | 4 |
| MLO-7277, 7557 | 1 | 1 | 1 | 1 | 4 | 3 | 4 | 3 |
| MLO-8200, 8515 (MIL-H- 8446) | 1 | 1 | 1 | 1 | 4 | 2 | 4 | 1 |
| MOBIL DELVAC 1100,1110,1120, 1130 | 1 | 1 | 1 | 1 | 4 | 1 | - | - |
| MOBIL HF | 1 | 1 | 2 | 1 | 4 | 1 | - | - |
| MOBIL NIVAC 20,30 | 1 | 1 | 1 | 1 | 1 | 1 | - | - |
| MOBIL THERM 600 | 1 | 1 | 1 | 1 | 4 | 1 | - | - |
| MOBILJET II Lubricant | 1 | - | - | - | - | - | - | - |
| Molybdenum Disulfide Grease | 1 | 1 | 1 | 1 | 4 | 1 | - | - |
| Monomethyl | 2 | 4 | 2 | 4 | 1 | 2 | 4 | - |
| Monomethylani- | 1 | 2 | 2 | 2 | 4 | 4 | - | - |

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| Monovinyl Acetylene | 1 | 1 | 3 | 1 | 1 | 1 | 2 | - |
| MOPAR BRAKE FLUID | 1 | 4 | 1 | 4 | 1 | 3 | 3 | 4 |
| Myristic Acid | 1 | - | - | - | - | - | - | - |

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