

## METALNOX M6386 – Solvent Conversion

KYZEN is a leading, worldwide manufacturer of engineered parts cleaning fluids. Our products and technologies address a broad range of industrial cleaning needs from basic metal part cleaning to precision aerospace, electronics and semiconductor applications.

In the past few years, our R&D group has developed and expanded our current line of hydrocarbon and modified alcohol products. KYZEN is pleased to inform existing users of METALNOX M6380 that our new and improved modified alcohol **METALNOX M6386** is readily available and is compatible with your existing equipment and original solvent.

Our **NEW METALNOX M6386** has been designed to clean a wide range of both – polar and non-polar soils – with an improved range of seal materials compatibility.

There is no need to empty the existing system and replace the original solvent with our new product. Easy transition allows you to simply add the new **METALNOX M6386** product as needed for make-up in your system as you run production. These solvents are compatible and should not create any issues.

METALNOX M6381 and METALNOX M6386 are Kyzen's lead Hydrocarbon and Modified Alcohol products, and are an ideal match for vacuum vapor degreasing equipment. These products are currently experiencing outstanding success in installations worldwide, in vacuum degreasing equipment made by multiple equipment manufacturers.

We understand you may have questions, and the FAQ below can help you answer them:

- 1. I currently use a modified alcohol product from a different supplier. Can KYZEN's METALNOX M6386 clean as well as my current product?*

Yes, METALNOX M6386 will clean just as well, if not better than your existing modified alcohol product regardless of whether the soils are polar or non-polar. This has been verified by countless laboratory tests and field trials not to mention numerous installations. A KYZEN representative in your area can help facilitate the transition at your request. Call 615-831-0888 or contact us at <http://www.kyzen.com/contact-us/>

- 2. Is METALNOX M6386 compatible with my vacuum vapor degreaser equipment?*

Yes, METALNOX M6386 is compatible with your current vacuum vapor degreaser equipment. Extensive compatibility testing has been conducted with the seal and elastomer materials used by the leading manufacturers of vacuum vapor degreasing equipment. This laboratory testing has been confirmed with extended field success in numerous current installations.

3. *Using a modified alcohol is not only about the cleaning fluid. There are a host of ancillary products required to operate these systems successfully. Does KYZEN offer these other required products?*

Yes, KYZEN offers corrosion inhibitor products for mild steel and soft metal applications. KYZEN CP86 is used for METALNOX M6386, and KYZEN CP81 is used for METALNOX M6381.

Of course, acid acceptance kits stabilizers are required when cleaning certain chlorinated soils. KYZEN's Acid Stabilizer Kit 86 and KYZEN Booster 86 are matched to METALNOX M6386. For an in-depth list of our corrosion preventatives, please visit our website: <http://www.kyzen.com/metal-parts-cleaning-chemicals/metal-finishing-corrosion-inhibitors/>

4. *Can I mix METALNOX M6386 with my current modified alcohol fluid?*

The short answer is, yes. KYZEN's R&D group has conducted extensive tests to validate the answer to this common question.

While no supplier ever recommends mixing two different products, even from the same supplier, during a system recharge there will commonly be a small residual amount of the previous material remaining. Our testing shows no negative effects on system performance, such as cleaning and distillation from these residual materials. A KYZEN representative can help answer any additional questions you may have. Call 615-831-0888 or contact us at <http://www.kyzen.com/contact-us/>

5. *I am having some trouble with the supply of my current modified alcohol. My bath is still working well and I do not wish to dump and recharge at this time. However, I must continue to make my routine "make up" additions. Can I use METALNOX M6386 as make up to my current modified alcohol fluid?*

Again, the short answer is yes. The routine mixing of two products is not commonly recommended. In view of that fact, KYZEN's R&D group has conducted extensive evaluations of METALNOX M6386 and other commonly available modified alcohols, in a wide range of mixtures, to evaluate cleaning performance and distillation effectiveness. The results of these evaluations, which included gas chromatograph testing, were clear and unambiguous. Across that broad range of mixtures, there was no effects on performance or distillation after using METALNOX M6386 as make up to a modified alcohol product from another supplier.

6. *From time to time we have a need for technical support regarding the optimal operation of our cleaning system which sometimes would benefit from direct, onsite or analytical laboratory testing support. We are well aware that this sort of support is not routinely available from many suppliers of modified alcohols and hydrocarbons today. Does KYZEN provides this type of customer support?*

KYZEN is a strong believer in addressing the root cause of process problems. We believe this is the fastest path to a solution. In our view, the best way to get to that root cause is to work hand in hand with our customers, most commonly on site at their production facilities. Depending on the challenge at hand, KYZEN's best-in-class Analytical Laboratory is fully equipped to evaluate and identify most residues, including Millipore particle count and weight evaluations, and FTIR for contaminant identification. The lab also has very high powered digital microscopes (up to 7000X) which are commonly used as trouble shooting tools.

The only way our customers can succeed is to have robust, stable cleaning processes working well each and every day. These field and laboratory resources are available to help our customers work through the occasional system upsets, and are a core element of the KYZEN value proposition for our customers. A KYZEN representative can help answer any additional questions you may have. Call 615-831-0888 or contact us at <http://www.kyzen.com/contact-us/>

While these questions are the most common, you may have additional questions specific to your needs. We invite you to contact us at [modified\\_alcohol@KYZEN.com](mailto:modified_alcohol@KYZEN.com), and a KYZEN technical expert will get back in contact with you promptly.

Thank you for considering KYZEN as a supplier to your organization. We look forward to working with you.

Best regards,

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