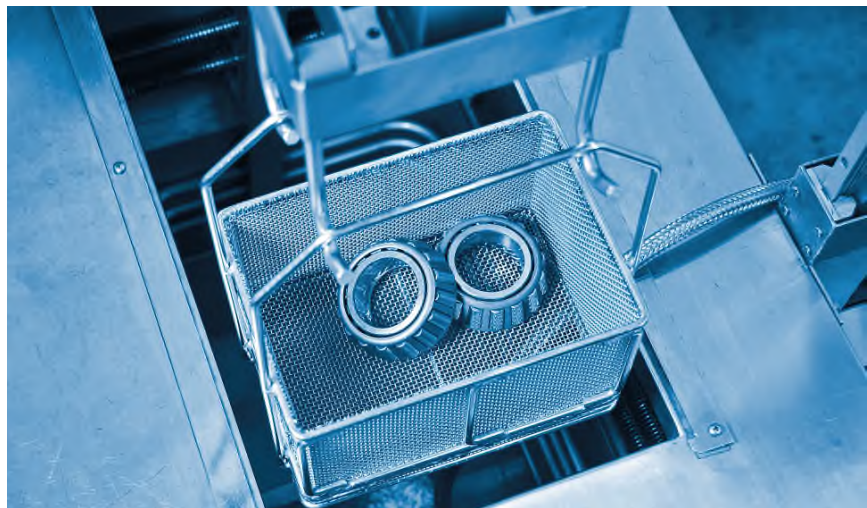




Top ten reasons to switch to a better solvent

The change to a new cleaning fluid can be full of uncertainty. For many companies looking to make the switch to a better solvent it is imperative that they maintain their cleaning performance with minimal impact to throughput and productivity. The best course of action is to partner with a precision cleaning expert that you can trust.

- 1. Same or better cleaning:** The modern fluorinated cleaning fluids have been lab-tested and analyzed to ensure the cleaning results are reliable, consistent and just as good as the legacy solvents. Cleaning efficiencies were maintained or improved.
- 2. Low cost of conversion:** In many cases, most of the modern cleaning fluids can be used in existing equipment, using the same methods. After emptying and cleaning the vapor degreaser many of the replacement cleaning fluids can be “dropped in” into the machinery without an appreciable change to the cleaning process.
- 3. Energy savings:** Many of the modern cleaning fluids have a lower boiling point and heat of vaporization than the older solvents, requiring less energy consumption, resulting in an overall energy cost savings.
- 4. Improved efficiency:** Since modern cleaning fluids boil at a lower rate than the legacy solvents, parts come out of the vapor degreaser cool enough to handle. No extra time is required for the parts to cool down. This allows workers to move on to the next production process sooner, boosting the overall throughput and productivity.
- 5. Enhanced safety:** Many of the new cleaning fluids are nonflammable for improved safety in the workplace. Their azeotropic properties ensure they are thermally stable and safe to use. This could also translate into to company insurance savings.
- 6. Healthier for workers:** Many of the substitutes for nPB, PERC or TCE have better toxicity profiles and higher TLVs (Threshold Limit Values) than the legacy solvents



- 7. Better environmental impact:** Since the modern cleaning fluids do not carry a heavy regulatory burden like some of the legacy solvents, switching to a modern cleaning fluid helps you improve your environmental footprint. Most modern fluids are not considered a HAP (Hazardous Air Pollutant) and may not require NESHAP (National Emission Standards for Hazardous Air Pollutants) permits.
- 8. Improved maintenance procedures:** except under the most extreme conditions, such as if exposed to a strong base or acid, or exposed to extreme heat, the modern cleaning fluids will not “turn acid”. They do not require the stabilizers or scavengers or weekly testing required of the legacy solvents.
- 9. Better working conditions:** Most modern cleaning fluids do not have the same pungent, sweet smell associated with TCE or the other legacy solvents. Less fumes means a more pleasant work area and happier, more productive workers. In addition, since many of the next generation fluids are safer to use, PPE requirements may be less stringent, making the working environment more convenient and comfortable for employees.
- 10. Easier handling, transport and disposal:** They are more easily recycled on-site because they do not contain any stabilizers or additive required when using legacy solvents. Employees do not need the same type of intensive training to manage the new fluids safely, saving time and money.