# Precision-V Vapor Degreaser Parts Cleaner
## Product# 1654

### Product Description

Ideal replacement for AK225-based liquid cleaners, which were eliminated at the beginning of 2015 due to ozone depletion restrictions.

Precision V Vapor Degreaser Parts Cleaner provides azeotropic properties that allow it to safely and efficiently cycle in a vapor-degreaser. It is not reactive nor corrosive to metals commonly found in the construction of vapor degreasers.

Exposure to Precision-V solvents is less hazardous than other solvents commonly used in vapor degreasers: e.g. TCE, nPB, and Perc. Precision V Vapor Degreaser Parts Cleaner has a lower boiling point than other vapor degreaser solvents, reducing heat-stress on components being cleaned and reducing energy consumption from the boil sump and chiller coils. Precision-V Parts Cleaner removes oils, greases, silicones and other common industrial contaminants.

*NOTE: As with all vapor degreaser equipment and processes, observe all safety precautions, guidelines and operating rules associated with these units. Failure to do so may put operations personnel at risk. Avoid excessive vapor losses, loss of refrigeration, excessive boil sump heat, etc. Make sure all equipment is operated in accordance with the manufacturer's guidelines and instructions. If in doubt, contact your manufacturer immediately.*

### Features / Benefits

- Powerful cleaner
- Nonflammable
- Rapid evaporation
- Zero residue
- Safe on most plastics
- Low VOC
- Non-ozone depleting
- Low Boiling Point – Lower Heat-Stress, Lower Energy

### Applications

- Used in vapor-degreasers and as cold cleaner
- Removes oils, greases, silicones and other common industrial contaminants

### Typical Product Data and Physical Properties

| | |
|---|---|
| **Physical state:** | Liquid |
| **Flammable limits:** | Lower 4.6%<br>Upper 12.7% |
| **Color:** | Clear, colorless |
| **Odor:** | Ethereal, faint odor. |
| **Boiling/condensation point:** | 93.9ºF (34.4ºC) |
| **Vapor pressure:** | 21.2 kPa (159.099mHg) |
| **Vapor density:** | >1 [Air=1] |
| **Shelf life:** | 5 years |

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### Material Compatibility - Plastic

| | |
|---|---|
| ABS: | Not compatible |
| Nylon: | Excellent |
| Lexan: | Not compatible |
| HDPE: | Excellent |
| LDPE: | Excellent |
| C.E. Phenolic: | Excellent |
| PMMA: | Not compatible |
| POM: | Excellent |
| PP: | Excellent |
| PS: | Not compatible |
| PTFE: | Excellent |
| PVC: | Not compatible |

### Material Compatibility - Elastomers

*5 minute immersion at room temperature*

| | |
|---|---|
| Silicone | Slight Swelling[2] |
| Santoprene | Excellent[1] |
| Hypalon | Excellent[1] |
| Epichlorohydrin | Slight Swelling[2] |
| Viton | Slight Swelling[2] |
| EPDM | Excellent[1] |
| Neoprene | Excellent[1] |
| Butyl rubber | Excellent[1] |
| Polyurethane | Slight Swelling[3] |
| Nat. gum rubber | Slight Swelling[2] |
| Buna-N | Slight Swelling[2] |
| Oil Resist Vinyl | Excellent[1] |
| Buna-S | Slight Swelling[2] |
| Sorbothane | Excellent[1] |
| Kelrez 6375 | Excellent[1] |
| Kelrez 7075 | Excellent[1] |

*1 = Swelling under 5%*
*2 = Swelling under 10%, recovery to under 5%*
*3 = Swelling under 12%, recovery to under 5%*

### Metals Compatibility - Metals

| | |
|---|---|
| Brass foil: | Excellent short-term, slight reaction long-term |
| Copper foil: | Excellent short-term, slight reaction long-term |
| Nickel 200 | Excellent short-term, slight reaction long-term |
| Aluminum 6061 | Excellent |
| Aluminum 2024 | Excellent short-term, slight reaction long-term |
| Stainless Steel 316 | Excellent |
| Stainless Steel 304 | Excellent |
| Mild carbon steel | Slight reaction short |

### Reclamation Process

The reclamation (ie. boil down) process utilizes the vapor-degreaser as a still to distill solvent from the dirty boil sump and allows you to reclaim and reuse this solvent.

When it is determined that the Boil Sump needs to be cleaned out, you should do the following things to boil down the solvent:

1. If you have a 2 sump vapor-degreaser, drain the rinse sump into a clean container for reuse. If you have a one-sump vapor-degreaser, drain the spray reservoir using the spray wand. This material should be collected in a clean container, so it can be reused.

2. Allow the solvent to continue to boil, and the vapors to condense, until such time as one of two things happens:
a. the High Temperature Control (HTC) trips and turns off the heat to the heating elements or b. the Liquid Level Control trips because the level in the Boil Sump is too low.

3. Drain the remaining solvent/soil mixture into a container that is labeled as Hazardous Waste. This material can be used in future “boil downs” to reclaim more of the solvent in the mixture.

4. Use the retained solvent (from step 1) to refill the vapor-degreaser and add whatever volume of solvent is necessary to completely fill the machine.

This process can be repeated as often as necessary, depending on the amount of usage of the vapor-degreaser and the amount of soil that is introduced into the vapor-degreaser.

When you “boil down”, always put the solvent/soil mixture into the vapor-degreaser to reclaim additional amount of the solvent from this mixture.

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### Packaging and Availability

| | |
|---|---|
| **1654-G** | 1 Gallon |

### Environmental Policy

Techspray® is committed to developing products to ensure a safer and cleaner environment. We will continue to meet and sustain the regulations of all federal, state and local government agencies.

### Resources

Techspray® products are supported by global sales, technical and customer services resources.

For additional technical information on this product or other Techspray® products in the United States, call the technical sales department at 800-858-4043, email tsales@techspray.com or visit our web site at: www.techspray.com.

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