



Precision-V ME-1500 Vapor Degreaser Solvent Product# 1686

Product Description

Techspray has engineered solvent cleaners that offer exciting new options for precision cleaning. Precision-V cleaners are powerful, leave no residue, evaporate extremely fast, and are nonflammable with no flash-point. Electronics, optics, and metal parts are quickly and thoroughly cleaned, eliminating the need for further rinsing. Precision-V is non-ozone depleting, so ideal replacements for cleaners containing Freon, HFC-141b and AK225.

Flux Removers clean R, RA, RMA and No-Clean type flux residues after high temperature reflow, wave and hand-soldering, ideal for lead and lead-free processes.

Precision-V ME-1500 has azeotrope-like properties that allow it to maintain stable properties as it is cycled in a vapor degreaser. It is neither reactive nor corrosive to metals commonly found in the construction of vapor degreasers.

Exposure to Precision-V solvents is less hazardous than many other solvents commonly used in vapor degreasers: e.g. TCE (Trichloroethylene, CAS #79-01-6), nPB (n-Propyl Bromide, CAS #106-94-5), and Perc (Perchloroethylene, CAS #127-18-4).

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

- Azeotrope Properties – Ideal for Vapor-Degreasers
- Much Safer Than nPB and TCE
- Nonflammable
- Non-Ozone Depleting
- Residue-Free Rapid Evaporation

Applications

- Used in vapor-degreasers and as cold cleaner
- Removes flux residues electronic or electrical soldering
- Effective on most flux types, including no-clean fluxes
- Effective for lead and lead-free soldering processes
- Also able to remove heavy industrial soil off parts



Typical Product Data and Physical Properties

Physical state:	Liquid
Flammable limits:	Lower: 5.9% Upper: 5.9%
Color:	Clear, colorless
Boiling/condensation point:	113°F (45°C)
Shelf life:	5 years unopened

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Compatibility

Precision-V cleaners are generally compatible within normal operating conditions of vapor degreaser and with exposed materials normally found with the equipment. Specific plastic and elastomeric formulations vary with manufacturers; therefore, we recommend compatibility verification when required.

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.

Packaging and Availability

1686-G	1 gal. (3.8L) in glass bottle
1686-5G	50 lbs. in 5 gal. (18.9L) metal drum
1686-54G	580 lbs. in 54 gal. (204L) metal drum

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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