



Precision-V VC-1600 Vapor-Degreaser Solvent

Product# 1656

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 non-flammable 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.

Precision-V VC-1600 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).

Precision-V solvents have a lower boiling point than most other vapor-degreaser solvents. This reduces heat-stress on components being cleaned and reduces energy consumption from the boil sump and chiller coils.

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

- HFC blend with Azeotrope-like Properties – Ideal for Vapor-Degreasers
- Designed to remove lead-free and no-clean flux residues
- Much Safer Than nPB and TCE
- Nonflammable
- Non-Ozone Depleting
- Residue-Free
- Rapid Evaporation
- Low Boiling Point – Lower Heat-Stress, Lower Energy
- SNAP (Significant New Alternatives Policy) approved chemistry



Typical Product Data and Physical Properties

Exposure Limit:	>200 ppm
Physical State:	Liquid
Odor:	ethereal
Appearance:	Clear, colorless liquid
Percent Volatile:	100
Vapor Pressure:	211.5 mmHg@25°C
Vapor Density:	>1 (Air+1)
Initial Boiling Point:	100.4°F (38°C)
Density:	1.29 at 25°C)
VOC:	862.5 g/L (EPA)
Surface Tension:	19 dynes/cm
Shelf life:	5 years

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Applications

- Used in vapor-degreasers and as cold cleaner
- Removes flux residues resulting from soldering and/or PCB assembly
- Effective on most flux types including no-clean
- Effective for lead and lead-free soldering processes
- Also able to remove heavy industrial soil off parts

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.

Material 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.

Packaging and Availability

Precision-V Vapor-Degreaser Flux Remover available in the following sizes:

1656-G	1 gal (3.8L) in glass bottle
1656-5G	50 lbs. in 5 gal (18.9L) metal drum
1656-54G	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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