

PWR-4 Solvent 3910

Product# 3910

Techspray® Precision-V 3910 is a PFAS Free and 100% US Manufactured

Product Description

PWR-4 Solvent 3910 is ideal where a safer, nonflammable and cost effective cleaner is required. It has a much lower Global Warming Potential (GWP) than other fluorocarbon containing solvents that contain HFC and most HFEs. It is 100% US Made and PFAS Free (per EPA TSCA 8(a)(7))

This innovative solvent is much safer than the four most common industrial solvents: TCE, nPB, perchloroethylene (PERC) and methylene chloride and quickly cleans the difficult baked-on R, RMA & no-clean fluxes from electronic assemblies. It is also a very effective cleaner for precision cleaning removing light, medium or heavy greases. PWR-4 Solvent 3910 has azeotrope 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. It is stabilized to minimize any chances of acidification.

All ingredients in Precision-V Solvent 3910 are synthesized in the United States and the final product is compounded in the United States to provide the most secure supply chain.

Feature/Benefits

- High performance low GWP replacement for Novec 71DE, 72DE & 73DE solvents
- Nonflammable
- Much safer than most common industrial solvents —TCE, nPB, Perc & Methylene Chloride
- Available in bulk for vapor-degreasing, ultra-sonic and immersion cleaning
- Rapid evaporation
- Stabilized for metals such as aluminum, magnesium, titanium, and brass
- Noncorrosive, safe for sensitive metals
- 100% of the supply chain is US based
- Very Low GWP of ~1
- PFAS Free

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-sumpvapor-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.

Vapor Degreaser Setting Guidelines

Boiling point	115°F (46.1°C)
Boil sump temp set	118°F (48°C)
Refrigerant high temp set	34°F (2°C)

Packaging and Availability

PWR-4 Solvent 3910 available in the following sizes

3910-G	1 gallon
3910-5G	5 gallons
3910-54G	54 gallons

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Compatibility

Material Name	Compatibility
ABS	Non-Compatible
Buna-N	Fair
EPDM	Fair
Graphite	Excellent
HDPE	Excellent
LDPE	Good
Lexan	Poor
Neoprene	Fair
Noryl	Poor
Nylon 66	Excellent
Cross-Linked PE	Excellent
Polyacrylate (PMMA)	Non-Compatible
Polypropylene	Excellent
Polystyrene	Non-Compatible
PPSU	Excellent
PVC	Excellent
Silicone Rubber	Poor
Teflon	Excellent
Viton	Fair

PWR-4 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.

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. For example avoid excessive vapor losses, loss of refrigeration or excessive boil sump heat. Ensure all equipment is operated per the manufacturer's guidelines and instructions. If in doubt, contact your manufacturer immediately.

Product displays no closed-cup flash point. However, the product contains halogenated compounds, which may present a masking effect on flashpoint testing results. Product contains flammable and nonflammable components, there are cases where flammable vapors may evolve under certain conditions and yet will not exhibit a closed-cup flash point. This phenomenon is noted when a nonflammable component is sufficiently volatile and present in sufficient quantity to inert the vapor space of the closed cup, thus preventing a flash. However, flammable/explosive vapor air mixture may form. Avoid vapor contact with ignition source or extreme heat.

Typical Product Data and Physical Properties

Physical State	Clear liquid
Odor	Faint ethereal odor
Color:	Colorless
Percent Volatile:	100
Flash Point (Method)	none (TAG CC)
KB Value	100
Specific gravity	1.29
Density	1.29 g/cm ³
Vapor pressure (kPA)	35.1
Vapor pressure (mmHg)	263.3
RoHS Compliant	yes
Global Warming Potential (GWP)	2.7
VOC Content	CARB 100%
	SCAQMD 1270 g/L
	EPA 100%, 1270 g/L
Shelf Life	2 years

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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