Technical Data Sheet

Rev. A (11/20) Page 1 of 2

Liquid Oxygen Validation Solvent Product# 2996

Product Description

Techspray Liquid Oxygen Validation Solvent is a proprietary azeotropic blend designed specifically for effective cleaning and validation of NASA propulsion oxygen systems hardware. This unique formulation is non-combustible and exhibits good material compatibility, oxygen system compatibility and high cleaning effectiveness. It is an ideal AK-225 replacement in systems where high cleaning efficiency and high non-volatile residue removal are required.

TECHSPRAY

Specifications

- Meets SAE ARP1176
- valuated and tested in NASA/TP-2015-218207

Features / Benefits

- Cleaning solvent for critical cleaning applications
- Non combustible
- No ozone depleting chemicals, low global warming potential
- Azeotropic composition provides excellent composition stability
- Designed for use in oxygen system cleaning
- Removes particulates and debris
- Removes fluorocarbon greases and oils used to lubricate fittings
- · Low toxicity
- Fast drying
- Very low non-volatile residue for maximum performance and safety
- Maximum performance and safety

Applications

Used to replace CFCs, HCFCs, and flammable solvents as a cleaning solvent for applications where metal and oxygen compatibility is a priority.



Typical Product Data and Physical Properties

82.4ºF/28ºC
-10/
<1%
1.4
88.7 mm Hg
3.3
Clear, colorless liquid
Ethereal
14.0
none
>1
100%
1400 g/L
22%
2 years from DOM
unopened
Yes

* Volatile Organic Compound (VOC) information is calculated on a weight basis using the VOC definition of California Air Resources Board (CARB) Consumer Product Regulations, South Coast Air Quality Management District (SCAQMD) Rule 102 and the Federal definition published in 40 CFR 51.100(s).

Liquid Oxygen Validation Solvent Product# 2996

Typical Product Data and Physical Properties (cont)

Moisture Content (ASTM D-3401)	<100 ppm by weight
NVR (ASTM-D-2109)	<5 ppm by weight
Largest Soluble Hydrocarbon	12 carbon
Particulate Matter	
>50 microns	0 per 100 mL.
25-50 microns	8 per 100 mL max.
15-25 microns	17 per 100 mL max.

Material Compatibility

Material Name	Plastics Compatibility
All Metals	Satisfactory
Polyethylene	Fair
Polypropylene	Fair
Polycarbonate	Satisfactory
Nylon	Satisfactory
Ероху	Satisfactory
FEP Copolymer*	Satisfactory
PCTFE*	Satisfactory
Aromatic Polyimide*	Satisfactory
FFKM*	Fair
FKM V0747-75*	Fair
Buna N*	Fair
PTFE*	Satisfactory
PTFE with silica fiber*	Satisfactory
PEEK*	Satisfactory

* Results interpreted from NASA/TP-2015-218207 – "Replacement of Hydrochlorofluorocarbon-225 - Solvent for Cleaning and Verification Sampling of NASA Propulsion Oxygen Systems Hardware, Ground Support Equipment, and Associated Test Systems", published April 2015.

Usage Instructions

For industrial use only. Read MSDS carefully prior to use.

Allow the product to achieve room temperature before using. Use only in cleanroom controlled environment. Liquid Oxygen Validation Solvent is used for cleaning, verification and validation of liquid oxygen lines. It can also be used as a flush cleaner at room temperature for oils and grease, and can also be used in a vapor degreaser for precision cleaning applications. Use in a well-ventilated area.

Packaging and Availability

2996-G	1 gal. (3.8L) bottle

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.

Important Notice to Purchaser/User: The information in this publication is based on tests that we believe are reliable. The results may vary due to differences in tests type and conditions. We recommend that each user evaluate the product to determine its suitability for the intended application. Conditions of use are outside our control and vary widely. Techspray's only obligation and your only solution is replacement of product that is shown to be defective when you receive it. In no case will Techspray[®] be liable for any special, incidental, or consequential damages based on breach of warranty, negligence or any other theory.



North America
Techspray®
8125 Cobb Center Drive
Kennesaw, GA 30152
800-858-4043
tsales@techspray.com

Europe

ITW Contamination Control BV Saffierlaan 5, 2132 VZ Hoofddorp The Netherlands +31 88 1307 400 info@itw-cc.com Countries outside the US Call to locate a distributor in your country