

Description

ABZOL cleaners are proprietary cleaning solvents with very low ozone depletion potential (ODP of 0.013 - 0.018) and short atmospheric lifetime (16 days) suitable for use in a variety of cleaning equipment. They can be used for precision and general-purpose cleaning in a vapor degreaser or an ultrasonic bath. Their solvency properties make removal of many different types of soils, such as polyester, mineral oil, greases, etc., possible.

The Albemarle Workplace Exposure Guideline (AWEG) for ABZOL cleaners is 25 ppm.

Applications

ABZOL VG cleaner: degreasing, vapor cleaning, cold cleaning metal parts
ABZOL JG cleaner: degreasing, vapor cleaning, cold cleaning metal parts
ABZOL EG cleaner: electronics, PCs, ionics removal
ABZOL JEG cleaner: electronics, PCs, ionics removal

Typical Properties

	ABZOL VG	ABZOL EG
Appearance	clear, colorless	clear, colorless
Suspended matter	none	none
Nonvolatile residue, wt % max.	0.001	0.001
APHA color, max.	15	15
Water content, ppm max.	150	250
Acidity, reported as wt % HCl, max.	0.001	0.001
Acid acceptance, as wt % NaOH, min.	0.15	0.15
Free halogen	passes test	passes test
Metal corrosion, MIL-T-81533A	passes	passes ¹
Accelerated oxidation, MIL-T-81533A	passes ²	passes ²
Flash point, °C (TCC, TOC, COC)	none	none
Flammability limits, 25 °C, vol % in air	3 - 8	4 - 8
Specific gravity, 25/25 °C	1.328	1.304
Boiling point, °C	71	70

	ABZOL JG	ABZOL JEG
Appearance	clear, colorless	clear, colorless
Suspended matter	none	none
Nonvolatile residue, wt % max.	0.001	0.001
APHA color, max.	15	15
Water content, ppm max.	150	250
Acidity, reported as wt % HCl, max.	0.001	0.001
Acid acceptance, as wt % NaOH, min.	0.15	0.15
Free halogen	passes test	passes test
Metal corrosion, MIL-T-81533A	passes	passes ¹
Accelerated oxidation, MIL-T-81533A	passes ²	n/a
Flash point, °C (TCC, TOC, COC)	none	none
Flammability limits, 25 °C, vol % in air	3 - 8	4 - 8
Specific gravity, 25/25 °C	1.339	1.280
Boiling point, °C	71	70

1. Passes with stainless steel and active metals. Marginal with C1010 carbon steel.
 May discolor copper with extended exposure.
 2. In the presence of C1010 carbon steel.

Materials Compatibility

Plastics

Epoxy glass (Acculam®).....	acceptable
High density polyethylene (Alathon®)	marginal
Polycarbonate (Lexan®)	unacceptable
Polypropylene	marginal
Polytetrafluoroethylene (Teflon®)	acceptable
Polyvinylidene fluoride (Kynar®).....	acceptable

Acceptable – no blistering or delamination, < 3% weight gain, < 1% weight loss, < 10% volume increase, < 3% volume decrease, < 10% hardness change

Unacceptable – definite blistering or delamination, > 15% weight gain, > 3% weight loss, > 20% volume increase, > 5% volume decrease, > 20% hardness change

Elastomers

Fluoroelastomer (Viton® A)	marginal
Polyurethane (Adiprene®)	marginal
Butadiene acrylonitrile (Buna-N®)	unacceptable
Nitrile rubber (NBR)	marginal

Acceptable – no blistering or delamination, < 10% weight gain, < 1% weight loss, < 30% volume increase, < 5% volume decrease, < 10% hardness increase, < 15% hardness decrease

Unacceptable – definite blistering or delamination, > 40% weight gain, > 3% weight loss, > 50% volume increase, > 7% volume decrease, > 20% hardness increase, > 40% hardness decrease

Exposure:

3 days at reflux (immersion and vapor phase) or 2 months at 110 °F (immersion)

Note:

This information is to be used as a guide only. Laboratory studies do not always accurately simulate actual field conditions and applications. It is recommended that the materials be tested under actual use conditions.

Shipping Information

Container Information

Shipments are made in bulk and 55-gallon drums.

Shipping Classification

DOT proper shipping name: not regulated for transportation

Safety and Handling Information

For specific safety and handling information, please refer to the material safety data sheet, which is available upon request.

The information presented herein is believed to be accurate and reliable, but is presented without guarantee or responsibility on the part of Albemarle Corporation. It is the responsibility of the user to comply with all applicable laws and regulations and to provide for a safe workplace. The user should consider any health or safety hazards or information contained herein only as a guide, and should take those precautions which are necessary or prudent to instruct employees and to develop work practice procedures in order to promote a safe work environment. Further, nothing contained herein shall be taken as an inducement or recommendation to manufacture or use any of the herein materials or processes in violation of existing or future patents.



AMERICAS 451 Florida Street • Baton Rouge, Louisiana 70801-1765 • Tel: 225-388-7402 or 800-535-3030 • Fax: 225-388-7848 **EUROPE** Parc Scientifique Einstein • Rue du Bosquet 9 • B-1348 Louvain-la-Neuve Sud, Belgium • Tel: 32-10-48-1711 • Fax: 32-10-48-1717 **ASIA PACIFIC** 111 Somerset Road #13-03 • Singapore 238164 • Tel: 65-6732-6286 • Fax: 65-6737-4155

ASIA PACIFIC 16th Floor, Fukoku Seimei Building • 2-2-2, Uchisaiwai-cho • Chiyoda-ku, Tokyo 100-0011, Japan • Tel: 81-3-5251-0796 • Fax: 81-3-3500-5623 **ASIA PACIFIC** China World Tower, Room 1317 • No. 1 Jian Guo Men Wai Avenue • Beijing 100004 China • Tel: 86-10-6505-4153 or 86-10-6505-4154 • Fax: 86-10-6505-4150