

Coventry 12855 Zero-VOC Swelling Solvent

Product # 12855

Product Description

Coventry™ 12855 Zero-VOC Swelling Solvent provides outstanding swell characteristics for silicone tubing and components. It also can be used to clean and removes mold release compounds. This high-purity solvent was developed to swell silicone elastomers and tubing for fitment onto components, and then evaporate allowing the tubing to shrink back to its original dimensions. It does not contain any hazardous air pollutants, while providing the swelling and dimensional return required for the most difficult jobs.

- Swelling of platinum and peroxide cured silicone
- Zero VOC for greater regulatory compliance
- Silicone swells and returns to original state quickly
- Safe on most plastics
- Penetrates to clean hard to reach areas
- Evaporates quickly and leaves no residues, minimizes process time
- Noncorrosive, safe for sensitive metals

Typical Applications

Coventry 12855 Precision Silicone Swelling Solvent and Cleaner is used to prepare and swell silicone components within critical environments:

- Swelling elastomers
- Carrier fluid for depositing silicone lubricants
- Cleaning
- Drying agent



Typical Product Data and Physical Properties

Boiling Point	210° F / 99°C
Solubility in Water	Negligible
Specific Gravity	0.76
Vapor Pressure @77°F	42 mm Hg
Appearance	Clear, colorless liquid
Odor	Mild
Surface Tension (dynes/cm @ 73°F)	15.9
Kauri-Butanol (KB) Number	16.6
Flash Point (TCC)	26° F / -3.3° C
Evaporation Rate (butyl acetate =1)	3.8
VOC* Content	
CARB	0%
SCAQMD	0 g/L
Federal	0%
Shelflife	2 years from DOM unopened
RoHS Compliant	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).

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Compatibility

Coventry™ 12855 Zero-VOC Swelling Solvent and Cleaner is compatible with most metals and plastics. As with any solvent, compatibility with substrate should be determined on a non-critical area prior to use. Long term compatibility with materials used during manufacturing must be evaluated as there is potential for plasticizers to be leached from plastic funnels, syringes, housings, bottles, etc.

Material	Compatibility
ABS	Non-Compatible
Buna-N	Excellent
EPDM	Excellent
Graphite	Excellent
HDPE	Excellent
LDPE	Good
Lexan™	Excellent
Neoprene	Excellent
Noryl®	Excellent
Nylon™ 66	Excellent
Cross-Linked PE	Excellent
Polypropylene	Excellent
Polystyrene	Non-Compatible
PVC	Excellent
Silicone Rubber	Poor
Teflon™	Excellent
Viton™	Excellent

Usage Instructions

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

Keep away from ignition sources. Use only in a well-ventilated area.

For silicone swelling applications, submerge the part in solvent until the desired swelling is obtained. Remove and assemble.

For silicone deposition, the solution should be agitated during coating to insure homogeneity in the solution in order to provide a uniform coating.

Availability

12855 1 gal. / 3.8 L liquid

Technical and Application Assistance

Chemtronics provides a technical hotline to answer your technical and application related questions.

The toll free number is: 1-800-TECH-401.

Note:

This information is believed to be accurate. It is intended for professional end users having the skills to evaluate and use the data properly. CHEMTRONICS does not guarantee the accuracy of the data and assumes no liability in connection with damages incurred while using it.