

#### DESCRIPTION

SqueekyKleen™ Cable Gel Remover effectively cleans filling gels and flooding compounds from fiber optic cables. SqueekyKleen quickly solubilizes a wide range of gel types, resulting in fast, time-saving gel removal from buffer tubes, ribbon cable, and individual fibers. It easily removes flooding compounds from coaxial cables.

In just a few wipes, SqueekyKleen completely removes gels and leaves fibers fanned and ready for connection. It leaves no residue.

SqueekyKleen is compatible with most materials and plastics, including polycarbonate, acrylate coating, and ribbon fiber.

SqueekyKleen is safe and easy to use. It lasts longer than fast-evaporating alcohol and is ideal for gel removal. SqueekyKleen emits no dangerous vapors. With a high flash point, it is safe to transport. SqueekyKleen is the gel remover of choice for network and cable installers worldwide.

#### CLEANING PROPERTIES

SqueekyKleen Cable Gel Remover dissolves a broad range of filling and flooding compounds and gels.

| PROPERTY      | RESULT                                     |
|---------------|--------------------------------------------|
| Gel removal   | Excellent<br>(100% in less than 2 minutes) |
| Fiber fan-out | Excellent<br>(<2 wipes to "squeak")        |

*Removal:* A measured amount of PE/PJ or ETPR gel is spread onto a stainless steel spatula with a coating thickness of 0.5 mm. The spatula is stirred in the gel remover. The amount of gel removed is quantified by observation.

*Fan-Out:* A towel saturated in SqueekyKleen is wrapped around a 12-count fiber buffer tube. Using the thumb and forefinger to grasp the towel with firm pressure, a 3-foot cable bundle is flattened and wiped clean. The fibers will fan apart when clean.



*SqueekyKleen cleans and fans fiber in two wipes*

#### PRODUCT FEATURES

- **Effective Cleaner:** Quickly cleans cable filling gel and flooding compounds.
- **Cleans IBP Flooding Compound:** Good for cleaning coax cable.
- **Fast Gel Cleaner:** Requires only two wipes and the fiber squeaks and fans.
- **No Residue:** Nothing left to require a secondary alcohol wipe.
- **Industry Tested:** Approved by users and manufacturers.

#### END USE

Removes gels and flooding compounds from:

- Buffer tubes
- Ribbon cables
- Individual fibers
- Coaxial cables
- Connectors
- Splicing tools

## PHYSICAL PROPERTIES

SqueezyKleen Cable Gel Remover is a high-purity solvent with low aromatic content. It leaves no residue.

| PROPERTY                    | RESULT        |
|-----------------------------|---------------|
| Flash point (ASTM D93)      | >140°F (60°C) |
| Initial boiling point       | 365°F (185°C) |
| Specific gravity            | 0.79          |
| Percent aromatics           | <1%           |
| Water content (ASTM D1533B) | <75 ppm       |
| Evaporation rate            | Medium        |
| Residue (ASTM D2369)        | <100 ppm      |

## DIRECTIONS FOR USE

SqueezyKleen Cable Gel Remover is suitable for many types of gels and filling compounds. It cleans asphaltic or polybutene flooding compounds from coaxial cables. Use SqueezyKleen Remover to clean tools and work areas.

To clean and fan fibers, use the premoistened, SqueezyKleen Wipe. Do not unfold towel. Start at the buffer tube and place stripped fibers into the fold of the towel. Use thumb and forefinger to flatten fibers. Press firmly on the fiber, pulling along the surface to wipe off the gel. Repeat action with a clean fold until fiber “squeaks” clean and fans. SqueezyKleen does not require further rinsing or cleaning with alcohol.

### Care of Optical Fibers During Splice Preparation:

Use the following cable manufacturer guidelines<sup>1</sup> to remove filling compound:

- Apply cleaning agent with a lint-free towelette.
- Remove excess solvent from the towelette prior to cleaning the fibers.
- Use the minimum amount of wiping strokes necessary to remove the filling compound.
- Once filling compound is removed, dry the fiber with a lint-free cloth to remove residue and reduce fiber exposure to cleaning solvent.

<sup>1</sup> Corning Cable Systems, Applications Engineering Note, “Care of Optical Fibers During Splice Preparation,” September, 2002.

## PACKAGING

SqueezyKleen Cable Gel Remover presaturated wipes come in a convenient package with multiple safety benefits.

### Control

Presaturated wipes minimize solvent exposure on sensitive fiber optic components. Fiber should not be soaked in solvent compound. The acrylate coating may swell. If the fiber is soaked for a long period, solvent wicking may cause excessive swelling or even cause coating delamination. Wipe cleaning also ensures faster solvent evaporation.

### Safety

The presaturated wipe package eliminates spill hazard and limits solvent vapor exposure. Wipes contain a carefully measured quantity of solvent and are an excellent way to control vapor. SqueezyKleen Cable Gel Remover does not require a follow-up wipe with alcohol, further reducing vapor exposure. The wipe package is a great choice for underground or confined space applications.

### Convenience

Each wipe package utilizes non-linting, non-tearing towels. Clean wipes are always available, eliminating recontamination of fibers with dirty rags or lint.



Convenient wipe package controls solvent exposure and vapor emissions

## COMPATIBILITY

SqueezyKleen Gel Remover is compatible with most components used in the communications industry. It meets standard test requirements for the various materials in which it may come in contact.

### Polyethylene

SqueezyKleen is compatible with polyethylene and does not cause environmental stress cracking.<sup>1</sup>

### Polyacrylate Cladding

SqueezyKleen is compatible with cross-linked polyacrylate fiber cladding. When coated fiber is soaked in SqueezyKleen solvent for 24 hours, polyacrylate coating does not swell or show signs of delamination.

### Polycarbonate

SqueezyKleen is safe on polycarbonate. Polycarbonate shows chemical resistance to SqueezyKleen with a resistant strain limit of >0.9%.<sup>2</sup>

### Corrosivity

SqueezyKleen will not corrode or stain metal parts. It does not tarnish or corrode copper.<sup>3</sup>

<sup>1</sup> Testing based on ASTM D1693, "Standard Test Method for Environmental Stress-Cracking of Ethylene Plastics." Polyethylene shows less than 20% stress cracking after 50°C for 14 days.

<sup>2</sup> Testing based on Mobay Corporation, Plastics and Rubber Division, "Chemical Compatibility Test for Unreinforced Thermoplastic Resins, 1989."

<sup>3</sup> Testing based on ASTM D130, "Standard Test Method for Detection of Copper Corrosion from Petroleum Products by the Copper Strip Tarnish Test."

## ENVIRONMENTAL IMPACT

SqueezyKleen Cable Gel Remover is a safer alternative to chlorinated solvents.

| PROPERTY                  | RESULT                                    |
|---------------------------|-------------------------------------------|
| VOC content               | 790 grams/liter                           |
| Global warming potential  | Does not contain global warming compounds |
| Ozone depletion potential | None                                      |
| CFC, HCFC, HFC content    | None                                      |
| RCRA                      | Not regulated as hazardous waste          |
| CERCLA/SARA status        | Not regulated as a hazardous substance    |

## SOAK TESTING

Materials are immersed in SqueezyKleen Cable Gel Remover for 72 hours at 50°C (122°F). Some rubbers will swell but should return to their original state once the cleaner evaporates. Wipe cleaning minimizes solvent exposure.

| PLASTICS      | % WEIGHT CHANGE | APPEARANCE |
|---------------|-----------------|------------|
| ABS           | +0.04           | NC         |
| Acrylic       | -0.01           | NC         |
| Delrin®       | +0.03           | NC         |
| Epoxy         | 0.00            | NC         |
| Nylon 66      | -0.02           | NC         |
| Nylon 101     | +0.07           | NC         |
| Polycarbonate | +0.04           | NC         |
| Phenolic      | -0.05           | NC         |
| PPO           | +0.02           | NC         |
| PVC           | +0.01           | NC         |
| Teflon®       | +0.03           | NC         |
| Tygon®        | -0.25           | NC         |
| Ultem® 1000   | -0.01           | NC         |
| Valox® 420    | 0.00            | NC         |

| ELASTOMERS | % WEIGHT CHANGE | APPEARANCE |
|------------|-----------------|------------|
| Neoprene®  | +9.31           | SS         |
| Nitrile    | -2.01           | NC         |
| SBR        | +47.34          | S          |
| Viton®     | +0.07           | NC         |

### KEY:

NC = No Change

S = Swelling

ES = Extreme Softening

C = Crazing

SS = Slight Swelling

D = Dissolved

*Testing based on ASTM D543, "Standard Test Method for Resistance of Plastics to Chemical Reagents."*

*Delrin®, Teflon®, Neoprene® and Viton® are trademarks of Du Pont. Ultem® 1000 and Valox® 420 are trademarks of G.E. Plastics. Tygon® is a trademark of Norton Performance Plastics.*

## MODEL SPECIFICATION

*The statement below may be inserted into a customer specification to help maintain engineering standards and ensure work integrity.*

The Gel Remover solvent shall be at least 80% high-purity, de-aromatized, aliphatic hydrocarbon enhanced with a cyclic terpene. Aromatic content shall be less than 1%. There should be no surfactants used in the Gel Remover and the residue shall be less than 100 ppm.

The Gel Remover shall dissolve a 0.020" (0.5mm) film of PE/PJ or ETPR grease with less than two minutes of agitation (no wiping). When wiping a 3-foot section of 12-count fiber from a buffer tube, a towel presaturated with the Gel Remover shall "squeak" the fibers with 2 wipes or less. The Gel Remover shall be compatible with materials typical in the communications industry.

The Gel Remover shall be safe to use. It shall have a flash point greater than 140°F (60°C) when tested via Pensky-Martin Closed Cup Test (ASTM D93).

## ORDER INFORMATION

| CAT #   | PACKAGE DESCRIPTION                                     |
|---------|---------------------------------------------------------|
| TC-1    | Single saturated wipe<br>144/case                       |
| TC-16LF | 1-pint/475-ml bottle with flip top<br>12/case           |
| TC-35LF | 1-quart/0.95-liter bottle with flip top<br>12/case      |
| TC-35LR | 1-quart/0.95-liter bottle with 6<br>sprayers<br>12/case |
| TC-128  | 1-gallon/3.8-liter jug<br>4/case                        |
| TC-640  | 5-gallon/18.9-liter pail                                |
| TC-96   | 3 quarts/2.85 liters in a 1-gallon pail<br>4/case       |
| TC-DRUM | 55-gal. drum (209 liters)                               |

**IMPORTANT NOTICE:** The statements here are made in good faith based on tests and observations we believe to be reliable. However, the completeness and accuracy of the information is not guaranteed. Before using, the end-user should conduct whatever evaluations are necessary to determine that the product is suitable for the intended use.

American Polywater expressly disclaims any implied warranties and conditions of merchantability and fitness for a particular purpose. American Polywater's only obligation shall be to replace such quantity of the product proven to be defective. Except for the replacement remedy, American Polywater shall not be liable for any loss, injury, or direct, indirect, or consequential damages resulting from product's use, regardless of the legal theory asserted.

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