

Cleaners and Degreasers, Electrical



1. Scope

This standard covers the requirements for electrical cleaners and degreasers.

This standard applies to the following Seattle City Light (SCL) stock numbers:

Stock No.	Description
013894	Multipurpose cleaner and degreaser, dual wipe
726158	Multipurpose cleaner and degreaser, 5-gallon pail
726163	Multipurpose cleaner and degreaser, 1-quart bottle
726168	Electrical contact cleaner, fast-drying, 9-oz aerosol can
726028	Insulator and bushing cleaner

2. Application

Electrical cleaners and degreasers are intended primarily for cleaning electrical cables in the process of making electrical splices and terminations. Removes grease and oils from solid surfaces and it may also be used as a general-purpose cleaner/degreaser for cleaning electrical and mechanical parts.

Electrical cleaners and degreasers are compatible with all plastics and rubber cable insulations.

Stock Nos. 013894, 726158, and 726163 are all the same type of product, but come in different packaging options.

Stock No. 726028 is primarily used by Stations to clean insulators and bushings.

See Section 4 for specific application requirements.

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3. Industry Standards

Electrical cleaners and degreasers shall meet the applicable requirements of the latest revision of the following industry standards:

ASTM-D86; Standard Test Method for Distillation of Petroleum Products and Liquid Fuels at Atmospheric Pressure

ASTM D93; Standard Test Methods for Flash Point by Pensky-Martens Closed Cup Tester

ASTM D130; Standard Test Method for Corrosiveness to Copper from Petroleum Products by Copper Strip Test

ASTM-D156; Standard Test Method for Saybolt Color of Petroleum Products (Saybolt Chromometer Method)

ASTM D543; Standard Practices for Evaluating the Resistance of Plastics to Chemical Reagents

ASTM D877; Standard Test Method for Dielectric Breakdown Voltage of Insulating Liquids Using Disk Electrodes

ASTM-D1218; Standard Test Method for Refractive Index and Refractive Dispersion of Hydrocarbon Liquids

ASTM-D1296; Standard Test Method for Odor of Volatile Solvents and Diluents

ASTM-D1298; Standard Test Method for Density, Relative Density (Specific Gravity), Or API Gravity of Crude Petroleum and Liquid Petroleum Products by Hydrometer Method

ASTM D1533B; Standard Test Method for Water In Insulating Liquids By Coulometric Karl Fischer Titration

ASTM D1729; Standard Practice for Visual Appraisal of Colors and Color Differences of Diffusely Illuminated Opaque Materials

ASTM D2369; Standard Test Method for Volatile Content of Coatings

IEEE 1493; Guide for the Evaluation of Solvents Used for Cleaning Electrical Cables and Accessories

4. Requirements

Electrical cleaners and degreasers shall have high dielectric strength and be ideal for cleaning electrical and electronic components.

Electrical cleaners and degreasers shall meet the requirements cited in tables 4a and 4b.

Table 4a. Requirements, Stock Nos. 013894, 726158, 726163

Application	Cable cleaning, splice preparation, cable terminations, switchgear, transformers, motor controls, fusible disconnect devices, motor, generators, and rheostats
Compatibility	Compatible with most rubbers and plastics
Dielectric strength	>40 kV
Flashpoint	>141°F (60°C)
Evaporation rate	Medium
Kari-Butanol (Kb) value	33
Specific gravity	0.79
Safety	Low level of toxicity, combustible

Table 4b. Requirements, Stock No. 726168

Application	Cable cleaning, electrical contact
Compatibility	Compatible with most rubbers and plastics
Dielectric strength	>36 kV
Flashpoint	>-20°F (-5°C)
Evaporation rate	Fast (40 mg/min)
Kari-Butanol (Kb) value	Unknown
Specific gravity	0.69
Safety	Low level of toxicity, combustible

Table 4c. Requirements, Stock No 726028

Application	For cleaning porcelain insulators and high voltage bushings and removing electrical contact grease and transformer oil off parts
Compatibility	Avoid contact with strong oxidizing agents, strong acids, reactive metals, halogens, strong inorganic acids, and aldehydes.
Dielectric strength	Unknown
Flashpoint	>45°F (7°C)
Evaporation rate	Medium
Specific gravity	0.79–0.81
Safety	High level of toxicity, combustible

5. Packaging

Product shall be packaged to prevent damage during shipping, handling, and inside storage.

Product shall be packaged as described in Section 7.

Each standard package shall be legibly marked with the following information:

- Manufacturer identification
- Product description
- SCL stock number
- Quantity






Each shipping container shall be legibly marked with the following information:

- SCL purchase order number

6. Issuance

See Section 7.

7. Approved Manufacturers

Stock No.	Stock Unit	Manufacturer	Part No.	Packaging	
013894	EA	American Polywater Corporation	HP-P158ID	144 set wet/dry pack /case 8" x 12" wet wipe 8" x 10" dry wipe	
726158	EA	American Polywater Corporation	HP-640	5-gallon pail	
		LPS Laboratories (PT Technologies)	61405	5-gallon pail	
726163	EA	American Polywater Corporation	HP-35LF	1-quart bottle	
		LPS Laboratories (PT Technologies)	61432	1-quart bottle	
726168	EA	American Polywater Corporation	FD-9	9-oz aerosol can	
726028	GL	W.M.Barr & Company	GSL-26 "Klean Strip"	1-gallon can	
		Sunnyside Corporation	834G1	1-gallon can	

8. Sources

SCL Material Standard 7261.5; Cleaner, Electrical Insulation (canceled)

Shetab, Muneer; SCL Standards Engineer, originator, and subject matter expert for 7550.25.

Stock Catalog page, 75-4, March 18, 2016

Technical Bulletin, American Polywater's HP Multipurpose Cleaner/Degreaser, LIT-HPTECHB/8-08C1000(8/04), Revised 08/06/08.

Technical Bulletin, American Polywater's HP Multipurpose Cleaner/Degreaser, LIT-HPTECHSPEC/REV003, Published in 2019.

Technical Bulletin, American Polywater's FD Electrical Contact Cleaner, LIT-FDTECHB/4-03/C1000(8/04), Published in 2004.

www.lpslabs.com

www.polywater.com

www.sunnysidecorp.com

www.wmbarr.com