

## POWER PLANT MATERIALS

### GENERAL

#### 1. GENERAL

**1.01** This section covers a list of power plant materials (other than oils, greases, and cleaning fluids listed in Sections 065-330-102, 065-330-110, and 065-330-120), and supplements the list appearing in other sections covering power equipment. This section shows optional materials that may be used in those instances where specified materials are not available. Some changes have been made in materials and have not yet been shown in the power equipment sections.

**1.02** Revision arrows are used to emphasize significant changes. The reasons for reissuing this section are listed below.

- (a) To update to standard format
- (b) To change the type and supplier of antirust and water pump lubricant
- (c) To rate the KS-16736, L1, compound Mfr Disc.
- (d) To remove silicone compound R-3126
- (e) To add a supplier for EXIDOL\* oil (Exide Corp) for preventing electrolyte evaporation
- (f) To change type of fuel inhibitor
- (g) To change styles and suppliers of neoprene gloves.

**1.03** Except as covered below, authority for the use of materials listed herein shall be obtained from the individual power section applying. Where this section lists various options under a group name (see cloth, abrasive), any of the products listed under this group name are considered satisfactory for any operation for which the group name or any product under this group name has been specified in the individual power sections. Some materials in this section have been grouped together so that supply

\*Trademark of the company shown in parenthesis.

organizations may furnish the option most advantageous from the standpoint of price, availability, etc. If one material is listed as replaced by another, eg, Red Paint No. 880, the man on the job may use either, ie, Red Paint No. 880 or the replacing material KS-6824 Sealing Compound, providing the individual power practice that specified the replaced product has not been changed to omit it. This section, however, is not authority for supply organizations to substitute.

**1.04** Where there are options, any of which are satisfactory, the order should be worded in terms of the group name.

**Example:** (quantity) lb, Cleaner, Soda.

**1.05** When ordering abrasives and there are options, any of which are satisfactory, the order should be worded in terms of the group name and the abrasive material should be specified.

**Example:** (quantity) ft, Cloth, Abrasive, Aluminum Oxide (No.) grade (No.) in. wide.

**Example:** (quantity) sheet, Paper, Abrasive, Aluminum Oxide (No.) grade.

**1.06** Where a particular item under the group name is desired or where only one option is listed, the order should be worded in accordance with the individual item.

**Example:** (quantity) ft, METALITE\* abrasive (Norton Company) on Jeans Cloth, (No.) grade (No.) in. wide.

**Example:** (quantity) pair, Glove, Rubber, Acid, R-3034.

**Example:** (quantity) can, Safety, R-1433 (size, as 1 qt).

**1.07** T<sup>l</sup>, ordering unit should be listed after the quantity in the order. Quantities should be in multiples of the listed units.

\*Trademark of the company shown in parenthesis.

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Bell System except under written agreement

**Example:** (quantity) can, Compound, Sealing, Battery (size, as 4 oz).

**Example:** (quantity) lb, Compound, Sealing, Battery (size, as 1 lb).

**Example:** (quantity) hank, Waste, Yarn, Wool.

**Example:** (quantity) carton, Compound, Sealing Conduit, RM-641575 (size, as 1 lb).

## 2. LIST OF MATERIALS

◆2.01 The following list of materials is arranged in alphabetical order.◆

### ABRASIVES

#### **Compound, Grinding**

(2-oz can)

Clover Grade C, Clover Manufacturing Company  
For grinding engine valves.

#### **Flexible, Abrasive**

**No. 82-003**

(package of 12, 5/8 in. by 1 in. by 5 in.)

**No. 82-004**

(package of 6, 1 in. by 2 in. by 5 in.)  
Ideal Industries, Incorporated  
For cleaning commutators.

#### **Granular, Compound, Lapping**

(1-lb can)

600-grain ALUNDUM\* abrasive (Norton Company)

#### **Sheet (Cloth Backing)**

##### **Cloth, Abrasive**

Aluminum oxide abrasive. Metal working. The 100 grade corresponds to 2/0, 150 grade corresponds to 4/0.

Not approved for use on the commutating face of carbon brushes or any commutating

surface. Order length by feet and width in even inches or by sheet (9 in. by 11 in.). Specify grade.

##### **Options**

METALITE\* aluminum oxide abrasive (Norton Company) on Jeans Cloth.

THREE-M-ITE\* industrial abrasives (Minnesota Mining and Manufacturing Company) on Jeans Cloth.

##### **Cloth, Crocus**

Replaced by Cloth, Abrasive, 150 grade.

##### **Cloth, Emery**

Replaced by Cloth, Abrasive, 100 grade.

##### **Sheet (Paper Backing)**

**Note:** Orders must specify the abrasive material as covered in paragraph 1.05.

##### **Paper, Abrasive**

Aluminum oxide abrasive. Woodworking. The 100 grade corresponds to 2/0, 150 grade corresponds to 4/0. Not approved for use on the commutating face of carbon brushes or any commutating surface. Order by sheets (9 in. by 11 in.). Specify grade.

##### **Options**

◆GARALUN\* abrasives (Sancap Abrasives Inc of Alliance, Ohio).

ARMOURITE\* abrasives (ARMAK Co of Chicago, Illinois).

ADALOX\* abrasives (Norton Company) on C Paper.

OPENKOTE\* abrasives (Norton Company) on C Paper.◆

PRODUCTION\* abrasives (Minnesota Mining and Manufacturing Company) on C Paper.

##### **Paper, Abrasive, Commercial**

Also known as sandpaper.

\*Trademark of the company shown in parenthesis.

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**Paper, Garnet**

(1/0, 2/0, 4/0, and 6/0)

Order by sheet (9 in. by 11 in.) or by length in feet and width in even inches. Specify grade.

For general use. Not approved for use on commutating face of carbon brushes or any commutating surface.

2/0 and 6/0 grades also used for refinishing metal-type and bentwood-type operator and service assistant chairs.

**Paper, Flint**

(medium, fine, and extra fine)

Order by sheet (9 in. by 11 in.). Specify grade.

FLINT GRADES	USAGE
Medium (corresponds to 1/0)	For rough work including first cuts on carbon brushes, where considerable material is to be removed.
Fine (corresponds to 2/0)	For general use, sanding of commutators and fitting of carbon brushes, when used for coarse cutting.
Extra Fine (corresponds to 4/0)	Generally satisfactory for final polishing of brushes and commutators, but 8/0 pouncing paper may sometimes be preferable.

**Paper, Abrasive, R-3163**

(package of 100, 4-1/2 in. by 5-1/2 in.)  
3/0-120C aluminum oxide abrasive

Not approved for use on the commutating face of carbon brushes or any commutating surface.

**Paper, Pouncing**

(package of 100, 8 in. by 11 in.)

8/0 grade (for use when 8/0 sandpaper is specified).

**Sandpaper (or cloth), Commercial**

See Paper, Abrasive, commercial and Paper, Pouncing.

**Seater and Cleaner, Brush, No. 23-008-5**

(1-1/8 in. by 5/8 in. by 4-3/4 in.)

Ideal Industries, Incorporated.

For fitting brushes to a commutator.

**ANTIFREEZE, ETHYLENE GLYCOL TYPE**

(1-qt or 1-gal. can or 55-gal. drum)

For use in engine cooling systems.

**Note:** Antifreeze containing "stop-leak" additives should not be used in reserve engine cooling systems. At the time the following list was compiled, the listed products did not contain "stop-leak". The purchaser of antifreeze must assume the ultimate responsibility for ascertaining that a product not containing "stop-leak" is being received.

ATLAS PERMA-GUARD\* antifreeze (Humble Oil and Refining Company).

FRIGITONE\*, antifreeze (Firestone Tire and Rubber Company).

GULF\* permanent antifreeze (Gulf Oil Corporation).

PAH-NOL\* permanent antifreeze (Philip A. Houghton, Incorporated).

PRESTONE\* antifreeze (Union Carbide Consumer Products Company, Division of Union Carbide Corporation).

TELAR\* antifreeze (E.I. duPont de Nemours and Company).

ZEREX\* antifreeze (E.I. duPont de Nemours and Company).

\*Trademark of the company shown in parenthesis.

**SECTION 065-370-101**

**APRON, RUBBER, R-3043**

For use in battery and countercell maintenance.

**CAN, KEROSENE, BLACK, AT-6078**

(1, 2, or 5 gal.)

**CAN, SAFETY**

**R-1433**

(1 qt)

**AT-6495N**

(2 or 5 gal.)

Unless green color is specified in the order, red will be furnished.

For gasoline or other flammable liquids in accordance with local practice.

**CASITE\* oil additive (Casite Corporation, Hastings, Michigan)**

(1 pt or 1 qt)

**CHEESECLOTH (See Cloth, Cleaning)**

**CLEANER, Anstac (Chemical Development Corporation) 2-M**

(1 qt)

For reconditioning of metal-type operator and service assistant chairs. Also used on instrument cases as antistatic protection.

**CLEANER, SODA**

(1 lb)

**Options**

Cleaner, Pyrophosphate (if available in building service supplies).

Soda, Table (bicarbonate).

Soda, Washing.

\*Trademark of the company shown in parenthesis.

**CLOTH, CLEANING**

***Cheesecloth, AT-6350***

(7 in. by 50 yd)

For cleaning where lint is not objectionable.

***Cloth, Cleaning, KS-14666***

(package of 25, 18 in. by 18 in.)

Ivory-colored cotton twill cloth.

For general cleaning.

***Cloth, Dust, White, C-2-X***

(bundle of 25, 36 in. by 36 in. or bundle of 50, 18 in. by 36 in.)

For cleaning where lint is not objectionable.

***Cloth, Twill, Jean, KS-2423***

(carton of 300, 9 in. by 9 in.)

White twill jean cloth.

For general cleaning.

**CLOTH, POLISHING, KS-14668**

(package of 25, 18 in. by 18 in.)

Ivory-colored with black threads in the selvage and hem, impregnated, cotton twill cloth.

For dusting and polishing.

**COMPOUND, KS-16736, L1**

◆Manufacture Discontinued◆

**COMPOUND, JOINT, ELECTRICAL, ALCOA\* aluminum products (Aluminum Company of America) NO. 2**

(8-oz plastic container)

For use in making aluminum bus-bar connections.

**◆COMPOUND, NO-OX-ID\* rust preventives (Sanchem Inc) "A" R-3266◆**

(8-oz tube)

Order from Manns Watts Company.

For ◆countercell◆ battery and bus-bar connections.

**COMPOUND, SEALING, BATTERY**

(2 oz, 4 oz, or 8-oz can, 1 or 5 lb)

From any approved battery supplier.

\*Trademark of the company shown in parenthesis.

**COMPOUND, SEALING, CONDUIT, RM-641575**

(1-lb carton)

**COMPOUND, SEALING, KS-6824**

(1/2-pt can)

For preventing oil leaks.

**COMPOUND, WAX, SUPERLA\*,  $\blacklozenge$ wax (American Oil Company, Chicago, Illinois)  $\blacklozenge$  KS-14688**

(6-oz bottle)

For reducing surface creepage of oil.

**CREAM, FINDER, WATER, NATIONAL**

(3/4 oz, 2-1/2 oz, or 1-pt jar)

Metal Hose and Tubing Company, Dover, New Jersey.

**DETECTOR, CARBON MONOXIDE, AT-6791**

(package of 10)

Stocked by Western Electric Company.

Installation as R-2722.

**ELECTROLYTE, BATTERY**

(package of 6, 1-qt containers or package of 12, 1-qt containers)

1.215  $\pm$ 0.005 specific gravity at 60°F

(11.5 lb per gal.)

1.300  $\pm$ 0.005 specific gravity at 60°F

(12.5 lb per gal.)

From any approved battery supplier.

**EMULSION, CLEANING, KS-14427**

(1 gal.)

For reconditioning metal-type and bentwood-type operator and service assistant chairs.

 $\blacklozenge$ EXIDOL\* oil (Exide Corp) for preventing electrolyte evaporation  $\blacklozenge$ **FUEL INHIBITOR,  $\blacklozenge$ KS-21923, L1 $\blacklozenge$** 

(1-pt and 1-gal. cans)

For use in engine fuels (kerosene and diesel only) to ensure stability and retard tank corrosion.

\*Trademark of the company shown in parenthesis.

**GLOVE, NEOPRENE**The Pioneer Rubber Company,  
Willard, OhioStyle  $\blacklozenge$ N-36 $\blacklozenge$ 

Sizes 10, 11 (pair)

Style  $\blacklozenge$ N-35 $\blacklozenge$ 

Sizes 9, 10, 11 (pair)

Edmont—Wilson  
Coshocton, Ohio

Style 29—845

Sizes 9, 10, 11 (pair)

Style 29—875

Sizes 9, 10, 11 (pair)

Style 29—885

Sizes 9, 10, 11 (pair)

These gloves are for protection from acid and alkaline solutions during light maintenance. They are not for protection from voltage.

**GLOVE, RUBBER, ACID, R-3034**

(pair)

These gloves are for protection from acid and alkaline solutions during installation and heavy maintenance. They are not for protection from voltage.

**KARBOUT\* motor gum solvent (Shaler Company)**

(8 oz)

For use in reducing carbon deposits in gasoline engines. Not for use in crankcase oil.

**MERCURY, COMMERCIAL**

(lb)

For use in manometers.

**MERCURY, REDISTILLED**

(lb)

Chas. Copper and Company, New York City

For use in ampere-hour meters and watt-meters.

**MERCURY, TRIPLE-DISTILLED**

Replaced by Mercury, Redistilled.

\*Trademark of the company shown in parenthesis.

**SECTION 065-370-101**

**OIL, CELL, CEMF (see Section 065-330-101)**

**PACKING, ENGINE (see engine section)**

**PAINT, LUMISHEEN**

Replaced by exhaust piping paint listed in Section 802-006-180.

**PAINT, RED, No. 880**

Replaced by Compound, Sealing, KS-6824.

**PAPER, CLEANING, KS-7187**

(envelope of 100, 1/2 in. by 2-1/2 in.)  
Bond paper for cleaning relay contacts.

**PAPER, KS-16601, L2 AND L3**

Replaced by SCOTT\* paper products (Scott Paper Co).

Paper wipers No. 580 and 590.

**PAPER, LITMUS, RED**

Replaced by Fisher alkacid tester. Present stocks may be used except where the particular section specifies alkacid paper.

**ROD, RUBBER, BLACK, SYNTHETIC, RM-636333**

(1/2 in. by 32 in.)  
For stirring alkaline solution for countercells.

**◆RUST INHIBITOR**

NALCOOL\* 2000 cooling system treatment (Nalco Chemical Company, Chicago, Illinois)

**RUST INHIBITOR AND CLEANER**

(16-oz cans)

AQUA-TANE\* cooling system treatment (General Industrial Research, Box 44, Linden, N. J. 07036)◆

**SODA, SAL**

For cleaning engine cooling systems.

\*Trademark of the company shown in parenthesis.

**SODIUM HYDROXIDE, KS-14500**

(6-oz or 1-lb can)

For use in making alkaline solution for countercells.

Small can contains 6-oz sodium hydroxide per KS-14422 plus 1/4 gram of nickel depolarizer.

Large can contains 1 lb of sodium hydroxide plus 7/8 gram of nickel depolarizer.

**SOLUTION, ALKALINE, COUNTERCELL**

Replaced by Sodium Hydroxide, KS-14500.

**TESTER, ALKACID**

Fisher Scientific Company, Pittsburgh. For refill of tester, ribbon is available in 4-roll boxes as "Ribbon, Test, Alkacid, Roll No. 1." The Fisher tester and refills are available from the Western Electric Company and are usually carried by chemical supply houses.

**TRISODIUM PHOSPHATE**

For cleaning engine cooling systems and fuel tanks.

**VARNISH, GLYPTOL 1202, OIL-RESISTING**

(1 pt, 1 qt, 1 gal. or 5 gal.)  
General Electric Company  
For clear oil-resisting finish of taped cables.

**WASTE, YARN WOOL, COMMERCIAL**

(hank)  
For waste-packed bearings.

**WIPERS, PAPER, SCOTT\* ◆paper products (Scott Paper Co)◆**

**No. 580**

(carton of 125, 9-3/8 in. by 10-1/4 in., 2-ply sheets)

**No. 590**

(carton of 125, 9-3/8 in. by 13-5/8 in., 2-ply sheets)

For general cleaning use where lint is not objectionable.

\*Trademark of the company shown in parenthesis.