



## MATERIAL SPECIFICATION

VOCAB NUMBER	ITEM DESCRIPTION
175080	EVAPORATING SOLVENT CLEANER STD PACK = 5 LITRE CONTAINER

### SPECIFICATION DETAILS

AS PER PNG POWER LTD GENERAL SPECIFICATION FOR  
EVAPORATING SOLVENT CLEANER

- **Unit of Measure:** Each
- **Rejection:** PNG Power Ltd reserves all rights to reject whole or part of the order not complying with this specification and is not liable for any cost or loss with the return of rejects to the Supplier. Facilitation of Invoice Credit must commence between the supplier and PNG Power Ltd through the process of PNG Power Ltd Discrepancy Report provisions

### Drawing References:

### Manufacturer's Product Code

### STANDARDS COMMITTEE APPROVAL

Approval by Alex Oa  
Chairman

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

4.6.2015

### DATA REVIEW ENDORSEMENT

NAME	TITLE	SIGNATURE	DATE
John Mandali	Manager Occupational Health & Safety		03/06/15
G/PENI	TL STANDARDS		8/4/19
KENNY LVEICE	TL HSE		17/07/2020

**SPECIFICATION FOR EVAPORATING SOLVENT CLEANSER, VOCAB : 175080****1.0 SCOPE:**

This specification covers the supply and delivery of Evaporating Solvent Cleaner to the nominated PNG POWER stores.

**2.0 APPLICATION:**

The solvent cleaner is intended to be used for cleaning and degreasing electrical and mechanical components where water rinse is undesirable. The solvent shall be applied by either brush or spray.

**3.0 GENERAL REQUIREMENTS****3.1 General**

The solvent shall be designed to evaporate quickly and dry residue free and at the same time eliminate the risk of fire. The solvent shall have no corrosive effect on metals and no or low corrosive effect on insulation materials. The following details shall apply to the solvent properties.

**3.2 Toxicity**

The toxicity of the solvent shall not be less than 390-PPM Threshold Limit Value.

**3.3 Relative Toxicity**

The Relative Toxicity shall not exceed 7% when compared with Carbon Tetra-Chloride maximum allowable concentration. The method of measurement is described in Safety Brochure 7 of the Committee of National Health of Medical Research of Australia.

**3.4 Metal Corrosion**

The solvent shall have no corrosive effect on any metal particularly steel, copper, bronze, brass, aluminium or solder and alloy combinations.

**3.5 Flash Point**

The flash point of the solvent shall be greater than 90°C when measured by using the P.M.C.C method according to A.S.T.M.D 93/62.

**3.6 Dielectric Strength**

This solvent shall have a dielectric strength greater than 40KV using the method of test described in Appendix C of AS 1767 – 1975 or IEC Publication 156-1963.

**3.7 Effect on Insulation material**

The effect of the solvent on insulation material shall not exceed the value given.

**3.7.1 Oil Modified Synthetic Resin Base**

Dried Varnish Coverings

There shall be reduction in pencil hardness after 10 minutes immersion in the solvent.

**3.7.2 Styrenated Ackyd Base Dried Varnish Coverings**

There shall be no reduction in pencil hardness after 6 hours immersion in the solvent.

**SPECIFICATION FOR EVAPORATING SOLVENT CLEANSER, VOCAB : 175080****4.0 STANDARDS:**

Reference is made to the following standards.

- AS 1767 – 1975 "Insulating Oil For Transformer & Switchgear"
- IEC Publication 156-1963
- Australian Standard Test Method D663/62
- Committee of National Medical Research Council of Australia Brochure No.7
- Pensky – Martens Closed Cup Test Method

**5.0 QUALITY CONTROL:**

PNG Power Ltd would expect the manufacturer to have in practice a factory quality control program under the guidance of qualified chemists to ensure product chemical control. Batch samples shall be held for a minimum of 6 Months from the date of manufacture.

**6.0 PACKING:**

The solvent shall be supplied in unbreakable containers preferably metal containers with air tight closures. The containers shall be impermeable and there shall be no reaction between the container and the solvent cleaner.

**7.0 LABELLING/INSTRUCTIONS:**

The label shall be suitably affixed to the container and shall have the following information clearly and indelibly printed on the label or alternatively moulded or stamped in a permanent form on the container;

- 7.1 The words "Solvent Cleaner"
- 7.2 The Manufacturer's Batch Number
- 7.3 A General Hazard Statement
- 7.4 Personal Protection Recommendations
- 7.5 First Aid recommendations in case of Skin and Eye contact, Inhalation and Ingestion

**8.0 INFORMATION TO BE SUPPLIED WITH TENDER:**

The tenderer shall submit with the quotation written evidence of the following information:

- 8.1 The Toxicity Limit Value
- 8.2 The Relative Toxicity compared with carbon Tetrachloride maximum allowable concentration as measured by the method described in clause 3.3.
- 8.3 The corrosive effect on metal mentioned in clause 3.4
- 8.4 The flash point value as measured by the method described in clause 3.5
- 8.5 The dielectric strength as measured by the method described in clause 3.6
- 8.6 The effect on insulation material mentioned in sub clauses 3.7.1 & 3.7.2
- 8.7 That the label shall have at least that information described in clause 7
- 8.8 If any quality control program is practiced at the factory of manufacture
- 8.9 The type of container material in which the solvent is supplied and its volume in Litres.
- 8.10 The Brand Name and place of manufacture of the solvent
- 8.11 If the solvent has not previously been supplied to the organization the solvent formulation shall be made available upon request to ensure that the solvent contains chemicals of low toxicity.
- 8.12 The recommended shelf life of the solvent.

**SPECIFICATION FOR EVAPORATING SOLVENT CLEANSER, VOCAB : 175080****9.0 PRODUCT TO BE SUPPLIED:**

The original product complying with this material specification shall be supplied at times. If an alternative product is to be offered then conditions of paragraph 10 will apply.

**10.0 CONDITION OF CHANGE:**

Should there be any changes either to the chemical composition or the price of the product and if an alternative product is to be offered for reasons beyond the Supplier's control during the term of the period contract, PPL shall be notified in writing prior to any changes taking place and stating:

- 10.1 The reason(s) for the change
- 10.2 Provide a copy of the Material Safety Data Sheet (MSDS) for the new chemical
- 10.3 Provide a copy of the permit to import, sell, distribute or manufacture this product
- 10.4 In the event of an alternative product being offered all other conditions of this specification will apply.

**11.0 SIZE OF CONTAINER:**

Containers shall be of (5) Litre capacities

**12.0 ACCEPTANCE:**

Before acceptance into PPL stores the solvent shall be inspected by the authorised PPL staff to ensure the solvent complies with the specification. The material safety data sheet shall be delivered to PPL for study in regards to health and safety precautions. First Aid measures etc before supply of the item. PPL reserves the right to ask for substitution or replacement to protect health and safety of PPL personal, public and environment. PPL reserves the right to have chemical tests carried out on the solvent upon delivery and before acceptance to ensure compliance of the product is achieved. Any product not complying with this specification shall be returned to the contractor for rectification or replacement at no cost.

John Mandali  
**MANAGER OCCUPATIONAL HEALTH & SAFETY**

