



## Guidelines for Use and Care of Klein Insulated Tools

For Professionals... Since 1857<sup>®</sup> USA

### Helps Guard Against Injury

The insulation on these tools is designed to reduce risk of injury if the tools make contact with an energized source with voltage up to 1000 volts. All Klein insulated tools are clearly marked with the official 1000-volt rating symbol. Where marked, they meet or exceed the referenced ASTM F1505 and/or IEC 60900 standards for insulated/insulating tools, and comply with NFPA-70E and CSA Z462 standards for workplace electrical safety. The insulation on each tool consists of two layers. The high-dielectric white inner layer is thick, exceptionally tough, and bonded to the tool. The bright orange outer layer is flame-retardant and impact-resistant.

### Inspection and Maintenance

This information is for guidance only regarding inspection, maintenance, retesting, and use of insulated tools.

Always inspect your tools before use. Destroy tool if insulation becomes damaged in any way. In addition to inspecting the tools before each use, ASTM F1505 recommends an annual visual examination by a suitably trained person to determine if the tools are suitable for continued service. In case of doubt after visual examination, the prescribed dielectric test\* shall apply.

\*Prescribed dielectric test = 10kV for 10 sec. (see Section 8.3 of the ASTM F1505 standard for specific test details).

Keep the tools clean, dry and free of surface contaminants. Clean insulated tools when needed using Klein Kleaners<sup>®</sup> or a mild detergent (such as dishwashing soap).

Store insulated tools carefully to reduce the risk of damaging the insulation. Take care not to store tools near sources of heat (such as steam pipes).

**Note:** According to their compatibility, tools should be used only in areas having ambient temperatures between -20 and +70°C and, for tools marked “C”, between -40 and +70°C.

**⚠ WARNINGS:**

- Only use tools that are marked with the official international 1000-volt rating symbol shown below, if there is any chance that the tools will make contact with an energized source.
- Whenever possible, always de-energize lines and equipment prior to working on or around them. Klein insulated tools are designed only to reduce the chance of injury where the tool may make contact with an energized source.
- Do **NOT** touch uninsulated portion of the tool or any conductive object when either might contact an energized source.
- Wear approved eye protection.
- Always inspect your tools before use. Destroy tool if insulation becomes damaged in any way.
- Because moisture, films, or other surface contaminants are conductive, Klein insulated tools must be kept clean, dry, and free of any surface contaminants.

