

To make sure the safety standards and quality of a tool meet requirements of our clients, each YATO VDE insulated tool is tested separately. We conduct tests in accordance with EN/IEC 60900.

VDE insulation - safety guaranteed by tests:

PRESSURE RESISTANCE

A tool is heated up to 70° C and a test voltage of 5000 V AC is applied. In such conditions a pressure of 20 N is put to insulation. The insulation mustn't break and has to retain its characteristics.

VOLTAGE RESISTANCE

The safety mark on a tool means that it has been tested at a voltage of 10 000 V AC. During the process, no voltage can be measured on the insulated part of a tool. Even though the test is at 10 000 V AC, they are approved for 1000 V AC and 1500 V DC. This gives you 10 times safety margin.



YATO 23 YT-20957



ADHESIVENESS

A bonding between VDE handle material and a tool is usually much stronger than in regular tools. For example adhesiveness on pliers is tested at a tensile load of 500 N after being stored for 168 hours at 70° C.

COLD IMPACT RESISTANCE

Insulating material must retain its toughness in low temperatures as well. According to EN/IEC 60900 the insulation needs to withstand knocks without breaking or splitting at a temperature of -25° C. Most of YATO VDE series is tested at a temperature of -40° C.

FLAMMABILITY TEST

YATO VDE tools can withstand fire for at least 10 seconds under a 12 cm flame.



The **VDE mark** is the abbreviation of the name of the German testing institute Verband der Elektrotechnik. If it appear with the **GS** symbol, it confirms that the tool has been VDE certified and has been tested in a certified laboratory according to EN/IEC 60900.

Tool body materials are top quality:

S2 TOOL STEEL

Is used in YATO VDE screwdrivers. Bits are hardened and tempered up to 56-60 HRC.



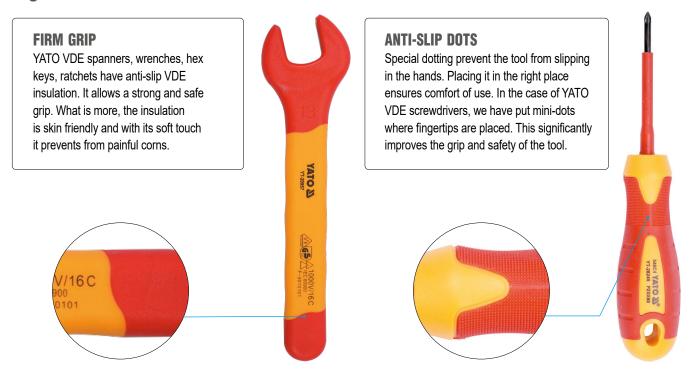
CRV STEEL

YATO VDE pliers are made of a high quality chromium--vanadium steel. Precisely formed and polished jaws will retain its characteristics for a long time.





Ergonomics in details:



Who should use VDE tools?

Professional electricians, electromechanics, utility and maintenance workers, HVAC technicians, or just any people who work with anything that requires electricity and there is a chance that a current might be present in a device must use VDE tools. It is believed that more than fifty volts is sufficient to drive a potentially lethal current through the body.

Thanks to fully insulated tools, users who work with easy to scratch materials such as plastic, non-ferrous metals like aluminum, brass or copper, will reduce the possibility of causing a damage by accidental slip of a tool.

YATO VDE tools range:

