


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.



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:

FIRM GRIP

YATO VDE spanners, wrenches, hex keys, ratchets have anti-slip VDE insulation. It allows a strong and safe grip. What is more, the insulation is skin friendly and with its soft touch it prevents from painful corns.



ANTI-SLIP DOTS

Special dotting prevent the tool from slipping in the hands. Placing it in the right place ensures comfort of use. In the case of YATO VDE screwdrivers, we have put mini-dots where fingertips are placed. This significantly improves the grip and safety of the tool.



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:

