

# Product Information

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## HASULITH Nickel Test

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### SPECIFICATION

HASULITH® Nickel-Test is a quick and easy method to detect nickel in metals, alloys and galvanic layers. Usually the test can be carried out without destruction or damage of the object.

### BACKGROUND

Nickel is well known to be an element which can cause allergies especially on frequent or permanent contact with the skin. Mainly women suffer from this problem. In many cases the allergy is caused by wearing jewelry/fashion jewelry, watches etc. which contain nickel.

This wide spread health-problem have lead to legal restrictions and regulations. For example in Germany there is a decree called: „Bedarfsgegenständeverordnung - 7. Änd. d. BGV vom 24.06.2000 siehe Bundesgesetzblatt I, Nr. 27 vom 23.06.2000, Seite 849,“. This decree concerns about the maximum nickel release of commodities (including jewelry/fashion jewelry, watches, buttons etc.). The limit value of nickel release was fixed to max. **0,5 µg/cm<sup>2</sup>/week**.

The detailed directions for detecting the nickel release values are written down in DIN EN Standards (DIN EN 1810/1811/12472). Unfortunately the investigations according to the DIN EN Standards are very time consuming, expensive and need the equipment of a professional analytical laboratory.

Our HASULITH® Nickel-Test can not replace or substitute this detailed, time consuming investigations but it `s possible to get a quick information whether an object contains noteworthy amounts of nickel or not. If the test shows a colour-reaction ( a weak red colour is enough ) you can be sure, that the limit value of nickel-release is already overceeded.

### OPERATING INSTRUCTIONS

Our HASULITH® Nickel-Test set consists of two glass-bottles with two different analytical solutions. For the test you put two drops of solution No.1 and two drops of solution No.2 *together* on a cotton-wool padded small rod. Then you rub thoroughly for half a minute on the surface on which you want to detect nickel. If the white cotton-wool shows red colour you can be sure that the tested object contains nickel.

The red colour shade can vary between a pale rose-coloured and a deep cherry-coloured shade ( the deeper the red colour the more nickel ).

Please notice: HASULITH Nickel-Test is a *qualitative* quick-test - a *quantitative* statement about the nickel-content or nickel-release is not possible.

Alloys with high copper-content will show a dirty-green to brownish colour reaction.

The surfaces you want to examine about nickel-content have to be clean to avoid misleading results by abrasion of dirt.

If the surface you want to examine is coated - e.g. with a lacquer - the coating must be removed before you start the test.

### EXAMPLES

Appropriate nickel-containing objects for trials are e.g. € 1 und € 2 coins (silver-coloured areas) and many other silver-coloured coins of different currencies, button-cells, metal top-parts of disposable lighters....

Also many locks and keys, tools and contacts of electrical plugs contain nickel or have nickel-electroplating.

### SAVETY

#### Solution 1



inflammable

#### Solution 2



irritant

Solution 1: R 11; S 2-7-16

Solution 2: R 36/37/38; S 2-7-9-20-24/25-39

Irritating to eyes, skin and respiratory-tract. Keep out of reach of children. Don't smoke, eat or drink on working with the nickel-test. Don't breathe the vapors and wear goggles for eye protection.

In case of contact with the skin: rinse immediately with plenty of water. In case of contact with the eyes: rinse with plenty of water and see an oculist. If swallowed: drink plenty of water and see a physician immediately.

### STORAGE / HANDLING / WASTE

HASULITH® Nickel-Test should be stored well closed in a cool, dark and dry place – not together with foodstuff or drugs. After use close the bottle immediately.

Nickel-Test should not be wasted together with the household rubbish. If necessary it have to be wasted as hazardous waste according to the local regulations.

### AVAILABLE CONTAINERS

8NITE-ST	Nickel-Test Set in brown glass-bottles with pipette	Solution 1: 20 ml Solution 2: 20 ml
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For resellers the HASULITH® Nickeltest is also available without label or we can label and pack it according to customers demand.