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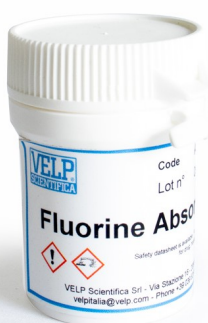
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# Elemental Analyzers

VELP Scientifica offers a wide range of high performance consumables for routine operation and maintenance of the NDA analyzer including high quality quartz reactors, metallic reactors, ash collector, capsules, reagents and catalysts of efficient performance and long life, standard for calibrating the instrument (EDTA, 9.57% N), o-rings, seals and fittings.

VELP Scientifica manufactures the main consumables in-house to offer the most suitable solution for your analyzer, giving you a considerable advantage over the competition, since the instruments and consumables come from a single source to optimize analyzer performance.



## Fluorine Absorber, 15g

The Fluorine Absorber (A00000456) is suitable for samples with fluorine compounds (e.g. teflon) since fluorine attacks the catalyst reducing its life. It has to be added in the reactor over the catalyst, approximately 2 cm. The 15 g bottle is enough to perform about 4 combustion reactors.



## Vanadium pentoxide, 10g

The Vanadium pentoxide (A00000457) permits improved sulfur combustion in particular samples (e.g. soils, lubricants). It has to be added directly to the tin foil with the sample. The amount of this powder depends on the characteristics of the sample: it is suggested to start using 1/3 of the sample weight; then increase the amount if the combustion is not satisfactory.



## **Kit approx. 1000 analysis for CHNS**

Consumable kit, containing everything you need to analyze up to 1000 samples (estimated value).



## Kit approx. 1000 analysis for Oxygen

Consumable kit, containing everything you need to analyze up to 1000 samples (estimated value).



### **Quartz reactor tube diam. 18mm**

Quartz reactor tube for VELP CHNS-O Elemental Analyzer ensuring high visibility of consumables consumption. Single-use only.



### **Pre-packed CHNS reactor**

Pre-packed combustion reactor in quartz containing quartz wool, tungsten oxide and Vcopper™. Ready to use.



### **Pre-packed O reactor**

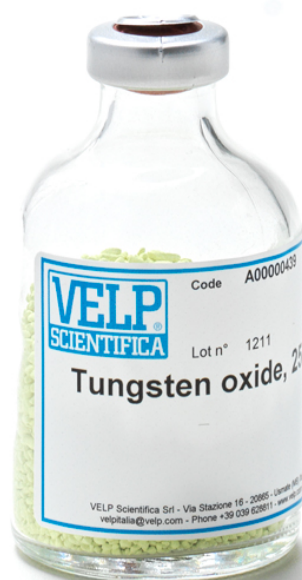
Pre-packed pyrolysis reactor in quartz containing nickel wool, nickel carbon wool and quartz chips. Ready to use.



### **Quartz ash collector diam. 13mm**

Universally applicable and disposable ash collector in quartz with a diameter of 13mm.





## Tungsten oxide, 25g

Tungsten oxide to be added in the CHNS combustion reactor tube along with quartz wool and Vcopper<sup>TM</sup> for the reduction of the nitrogen oxides to elemental nitrogen.



## Nickel wool, 2g

Nickel wool to be added in the pyrolysis reactor tube for Oxygen analysis.



## Nickel Carbon wool, 5g

Nickel Carbon wool to be added in the pyrolysis reactor tube for Oxygen analysis.



## Quartz Chips, 50g

Quartz chips to be added in the Pyrolysis reactor along with nickel wool and nickel carbon wool for the reduction of the sample into its elemental compounds.



## **Tin Foil Cups, 5x9mm 250 pcs**

5x9 mm nitrogen-free Tin Foils with conical shape, ideal for any kind of sample, solid, liquid or semi-solid.



Consumable kit, containing everything you need to analyze up to 1000 samples (estimated value).



**Kit approximately 2000 analyses for NDA - CN**

Consumable kit, containing everything you need to analyze up to 2000 samples (estimated value).





**Kit approximately 4000 analyses for NDA - CN**

Consumable kit, containing everything you need to analyze up to 4000 samples (estimated value).



## Quartz reactor tube

Quartz reactor tube for VELP Elemental Analyzer ensuring high visibility of consumables consumption. Best for combustion and reduction. Single-use only.



### **Metal reactor tube**

Resistant metal reactor tube for VELP Elemental Analyzer. Metal tube is reusable after cleaning, for Combustion.



### **Pre-packed combustion reactor**

Pre-packed combustion reactor in quartz containing quartz wool, VELPCatalyst, and inert layer. Ready to use.



### **Pre-packed reduction reactor**

Pre-packed reduction reactor in quartz containing Vcopper™, quartz wool, and copper oxide. Ready to use.



## **Quartz ash collector**

Universally applicable and disposable ash collector in quartz.



### **Ceramic ash collector with bottom**

Universally applicable and disposable ash collector in ceramic.



### **Metallic ash collector**

Reusable metallic ash collector ensuring resistance and reducing cost per analysis.





## Vcopper High Reduction Efficiency, 470 g

Formulation of highly active copper powder for the reduction of the nitrogen oxides to elemental nitrogen.



## Super-Absorbent Powder, 10 g

Super-Absorbent Powder is ideal for sample preparation when analyzing liquid samples as it changes the status of the sample to paste and prevents the overflow of liquid from the tin foil cup.



## **Tin Foil Cups, 150 pcs**

35x35 mm nitrogen-free Tin Foils with conical shape, ideal for any kind of sample, solid, liquid or semi-solid.



### **Tin foils 50x50 mm, 450 pcs**

50x50 mm nitrogen-free Tin Foils, universally applicable and ideal for high amount of sample, up to 1 gram.



## Silver foil 35x35 mm, 100 pcs

35x35 mm Silver Foils for samples requiring pre-treatment.



### **Mold for tin foils 50x50mm**

Compact mold for tin foil shaping before sample weighing. A proper cup shape ensures the easy closing of the tin foil and avoids potential sample loss, ultimately leading to reliable results.



## VELPcatalyst with inert layer, 36 g

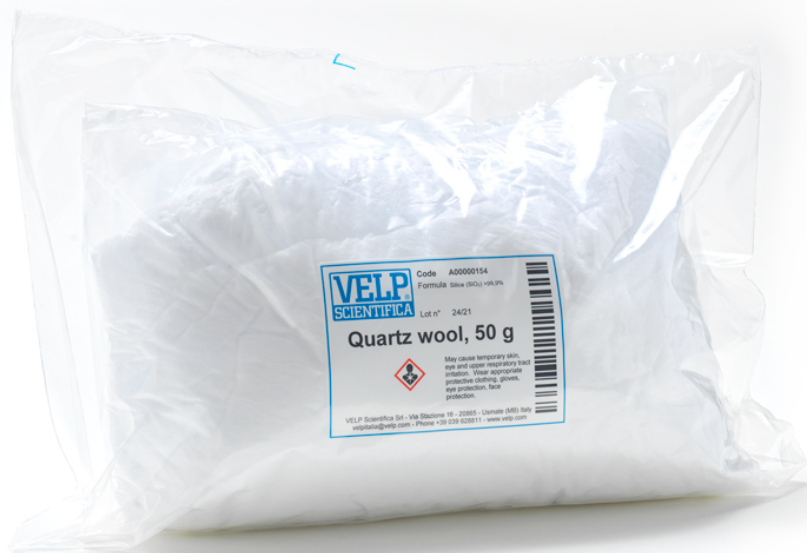
Formulation of high efficient catalyst that accelerates the combustion ensuring accuracy and precision.



## Copper oxide, 50g

Copper oxide to be added in the top part of the reduction reactor along with Vcopper™ for the reduction of the nitrogen oxides to elemental nitrogen.





## Quartz wool, 50 g

Quartz wool to be added in the combustion and reduction reactor tubes. Required also for the preparation of the final water trap before nitrogen detection.



## Anhydron, 454g

Chemical desiccant for the final water absorption trap before nitrogen detection.



## EDTA Certified, 100 gr

Nitrogen standard to create and check calibration curves of Elemental Analyzers.



## High temperature sealing grease

Grease to be applied on the bottom O-ring inside the elemental analyzer when replacing the reactors.

# Kjeldahl Consumables

**Genuine Catalyst tablets KjTabs™, Vreceiver™ Boric Acid powder formula with indicators and Nitrogen-free Weighing Boats for reliable Kjeldahl analysis**

The addition of a suitable catalyst, along with high temperature, have influence on the speed and the efficiency of the mineralization in Kjeldahl analysis.

Achieving the highest level of performance in a wide range of Kjeldahl applications is now possible with VELP Scientifica genuine **KjTabs™ catalyst** and **antifoaming** tablets.

VELP Scientifica Weighing Boats are the perfect solution to all the difficult transfer operations of powders or syrupy samples into mineralization test tubes.

During the Kjeldahl distillation process, the ammonia content is condensed and collected in a boric acid solution to avoid loss of gaseous  $\text{NH}_3$ . VELP unique **Vreceiver™** is a certified formula composed of **Boric Acid** powder and a mixture of **indicators** mentioned by AOAC methods (Bromocresol green and Methyl red) allowing fast and standardized receiving solution preparation for **colorimetric titration**.



## **KjTabs VCM Kjeldahl Catalyst Tablets - 1000 pcs/box**

KjTabs™ VCM are universally applicable Kjeldahl Catalyst Tablets with a low copper content. The perfect solutions to speed up the digestion of your samples.



## **KjTabs VCT Kjeldahl Catalyst Tablets - 1000 pcs/box**

KjTabs™ VCT Kjeldahl Catalyst Tablets are ideal for tougher samples. The perfect solutions to speed up the digestion process.



## **KjTabs VTCT Kjeldahl Catalyst Tablets - 1000 pcs/box**

KjTabs™ VTCT Kjeldahl Catalyst Tablets are ideal for tougher samples. The perfect solutions to speed up the digestion process.



## **KjTabs VST Kjeldahl Catalyst Tablets - 1000 pcs/box**

KjTabs™ VST Kjeldahl Catalyst Tablets are ideal for oily and fatty samples. The perfect solutions to speed up the digestion process.





## **KjTabs VW Kjeldahl Catalyst Tablets - 1000 pcs/box**

KjTabs™ VW Kjeldahl Catalyst Tablets are ideal for applications based on the Wieninger method. The perfect solutions to speed up the digestion of your samples.



## **KjTabs VKPC Kjeldahl Catalyst Tablets - 1000 pcs/box**

KjTabs™ VKPC Kjeldahl Catalyst Tablets are ideal when a high amount of copper is required. The perfect solutions to speed up the digestion of your samples.



## **KjTabs VS Kjeldahl Antifoam Tablets - 1000 pcs/box**

KjTabs™ VS Antifoam are perfect to reduce foam formation during the initial phase of the mineralization process.



## Vreceiver TKN Boric Acid Powder Formula with indicators

The innovative VELP solution for the preparation of one liter of boric acid with indicators (Bromocresol Green and Methyl Red). Ease-of-use, safety and standardization for maximum precision and accuracy in Kjeldahl analysis.



**Weighing boats 58x10x10 mm, 100 pcs/box**



**Weighing boats 70x23x15 mm, 100 pcs/box**

# Solvent Extractors Consumables

A complete set of cups, thimbles and gaskets guaranteeing maximum performance to solvent extractors



**Boiling stones, 30g**



**Butyl seal SER148, 3pcs/box**





**Cellulose thimbles 40x80mm, 25pcs/box**

Ideal for processing a sample with low fat content by using a high amount of sample



**Cellulose thimbles 25x80mm, 25pcs/box**

Ideal for processing a sample with high fat content by using a low amount of sample though saving solvent



**Cellulose thimbles 33x80mm, 25pcs/box**



**Glass fiber thimbles 25x80mm, 25pcs/box**



**Glass fiber thimbles 33x80mm, 25pcs/box**



**Green viton seal SER158, 3pcs/box**



**Grey butyl seal SER158, 3pcs/box**



**Vaflon seal SER148, 3pcs/box**





**Viton seal SER148, 3pcs/box**



## White vaflon seal SER158, 3pcs/box

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