



A P P L E  
M E L O N · W A T E R M E L O N  
H O R T I C U L T U R A L  
P E R S I M M O N  
C I T R U S  
T O M A T O  
M A N G O  
F R U I T T R E E S



Vital Power



**FILTER**

INVISIBLE PROTECTION  
AGAINST SOLAR DAMAGE

AVOID BURNS AND  
HYDRATES TISSUES



 **Zoberbac**  
Agrocompany



Vital Power



# FILTER

**VITAL POWER FILTER**  
LATEST GENERATION SUN  
PROTECTANT, EFFICIENT  
AND EFFECTIVE, REDUCES  
FRUIT BURN.

## MAXIMUM PROTECTION AGAINST SOLAR DAMAGE

### SUN DAMAGE



### PROBLEMATIC

Climate change has caused an increase in solar irradiation, implying that higher values of earlier UV radiation are increasing and beginning to cause non-visible damage at the cellular level.

According to the crop, negative effects can include superficial cellular damage and discoloration, dehydration and reduction of the quality of the fruit (firmness, color and juice). This results in depreciation marketability. **Solar stress implies losses in the commercial performance of the order from 8% to 30% of the harvests worldwide.**



**Loss of 8% to 30%  
of commercial fruit  
at world level**



**UV values from 8.**  
Causes cellular damage (cellular  
breakdown and discoloration)

**IR radiation.** Transfers energy  
causing increase of temperature  
(dehydration and loss of quality)

### INDEX UV RADIATION



INDEX UV 1	INDEX UV 2	INDEX UV 3	INDEX UV 4	INDEX UV 5	INDEX UV 6	INDEX UV 7	INDEX UV 8	INDEX UV 9	INDEX UV 10	INDEX UV 11+
LOW LEVEL			MEDIUM LEVEL		HIGH LEVEL		VERY HIGH LEVEL		EXTREME	



Vital Power

# FILTER



**VITAL POWER FILTER** is a formulation based on iron (Fe), zinc (Zn), oligosaccharides and two types of triglycerides. Vital Power Filter creates a transparent film that protects the plant and the fruit from ultraviolet (UV) and infrared (IR) radiation, and also produces a moisturizing effect on the tissues.

**VITAL POWER FILTER** is effective in reducing sunburn and sunscald in crops, and has healing properties to help repair tissues and maintain fruit quality.

## MECHANISM OF ACTION

Long-chain triglycerides **reflect radiation and moisturize tissues**, preventing the increase of skin temperature.



Short-chain triglycerides that **absorb radiation**, produce a cooling effect between 3 °C and 5 °C.



The composition of iron, zinc and oligosaccharides promote the **biosynthesis of HSP (thermal shock proteins) and fatty acids of the cell walls**.



This unique formulation has **healing properties** to help to repair the consequences of generated microfissures.



## BENEFITS OF VITAL POWER FILTER

- Formation of a transparent film on the tissues.
- Liquid formulation: easy application.
- No damage the equipment.
- No delay the maturation.
- Exempt from residues. **Certificate of use in Organic Farming.**
- Effective resistance to adverse weather conditions.
- Compatible with most commonly used compounds (insecticides, fungicides, nutritional products, etc.)



**LIQUID**  
FORMULATION

**MAXIMUM**  
PROTECTION

**MAXIMUM**  
EFFECTIVENESS

**HIGHER**  
PROFITABILITY

**NOT STAIN**  
THE FRUITS

**NOT LEAVE**  
RESIDUES

### Vital Power Filter Dose

FOLIAR: 3 to 4 l/ha

Recognized need: 5 l/ha

Spacing between applications:  
12 to 20 days

### Content

Iron (Fe)..... 0,5 % w/w

Zinc (Zn)..... 1,5 % w/w

Free of chloride 0.5 g/L

pH: 7±0,5

## THE KEYS FOR A RATIONAL AND EFFICIENT APPLICATION



**RIGHT  
MOMENT**



**SUITABLE  
PLACE**



**RIGHT  
PRODUCT**



**ADEQUATE  
DOSE**

**VITAL POWER FILTER:  
TRANSPARENT  
PROTECTION  
WILL NOT LEAVE  
RESIDUE IN THE FRUIT.**

**VITAL POWER FILTER**  
The most competitive  
solution in the market.

Our goal is profitability  
and efficiency, one Vital  
Power Filter application is  
equivalent to five  
applications of any similar  
product on the market.



**READ THE LABEL CAREFULLY  
BEFORE USE.**

RECOMMENDED DOSES			
CROP	START OF APPLICATION	Nº OF APPLICATIONS	DOSE
Citrus	1º application with fruits of 15-20 mm diameter	3-6	300-500 cc/hl (consumption 1000-1500 l/ha)
Pome fruit trees	Just after the thinning. Fruits from 15-20 mm diameter	3-5	300-400 cc/hl (consumption 1000 l/ha)
Melon and Watermelon	15-20 days after curdling or from fruits exposed to the sun	3-4	300-400 cc/hl (consumption 800-1000 l/ha)
Tomato industry	From fruits exposed to the sun	2-4	300-400 cc/hl (consumption 500 l/ha)
Rest Horticulture and Blueberries	As needed during the summer cycle	1-3	300-400 cc/hl
Khaki Pomegranate	Fruits from 15-20 mm diameter	2-6	300-400 cc/hl
Vineyard	Fruits from 5 mm diameter	2-4	300-400 cc/hl
Pineapple Mango Avocado	Start with a sudden increase of temperature and/or increase of UV radiation values. (Values from 8-10).	3-6	300-400 cc/hl

### APPLICATION AND MODE OF USE

Foliar application directly on the crop, in general doses of 300-400 cc/hl (3-4 L/ha). In cases of recognised need, the dosage can be increased to 500 cc/hl. The spacing between applications is 12 to 20 days, depending on the climatic conditions. Use the volume of solution necessary for the correct distribution and coating of the crop, to form a uniform and homogeneous film, without reaching the drip point. It is recommended to use a good wetting agent.

In water having high carbonates and basic PH content (> 8), it recommended to acidify to (ph = 6-7). **Applications should be started with UV-radiation values from 8, and/or in anticipation of a heat wave.**

**IF YOU NEED ADVICE, OR YOU HAVE ANY CONSULTATION ABOUT OUR PRODUCTS,  
IN ZOBERBAC AGROCOMPANY WE ARE ALWAYS AT YOUR DISPOSAL.**



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