







Your solution for:

High temperatures and excessive solar radiation.

☑ Damage caused by heat stress.



CLIMATE CHANGE AND GLOBAL WARMING

Water stress

Europe

Ratio of needs to be covered Water stress in 2040

Low (<10%) Low to medium (10%-20%) Medium to high (20%-40%) High (40%-80%) Extremely high (>80%



Africa

Water stress in 2040

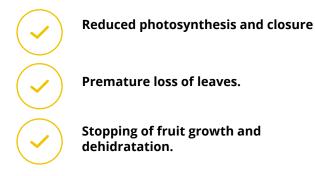


Asia

Water stress in 2040



Water stress and excess radiation on plants produces, in addition to sunburn, the following:







(ZnO) 2.5%:

radiation filter

UV+IR

(CaCO₃) 25%:

Small highly

reflective

particles

COLDEFEND PLUS

21246

AFERA A INTER

Reduction in oxidation

Prevention of blocking of photosynthesis.

Physical barrier: prevention of water loss.

SOLDEFEND PLUS TECHNOLOGY: DESIGNED FOR THE PRODUCER

Registered as CE FERTILISER: multi-crop.

Organic and conventional agriculture.

Easy to use liquid formula.

Can be applied with standard spraying equipment and, in most cases, can be added to an existing treatment programme.

Is not abrasive for the equipment.

The size of the particles ensures good surface coverage.

No spots: the fruit maintains its value.

Safe for people and the environment.

The most profitable option on the market.



HOW TO USE SOLDEFEND PLUS

Application dose: 2%, with a min and max of 10-20 L/Ha.

Volume of solution necessary for a good coating.

Number of applications:

1-3 applications/season. Make the necessary applications (every 15-30 days) to maintain crop protection until harvest, depending on weather and growing conditions.

SOLDEFEND PLUS must firstly be applied:

Before the size of the fruit exceeds 35 mm. Before the appearance of extreme heat conditions.

Use fine nozzles and adequate speed and pressure to obtain a fine drop that covers the vegetation. Avoid large drops.

TESTS: TREATMENT OF VINEYARDS WITH SOLDEFEND

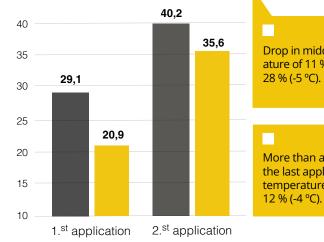
Marselan variety, trellis cultivation, without irrigation, 2400 pl/Ha

2 applications: beginning of July and beginning of August. 20 L7Ha



Temperature of the bunches. 1 week after each application.

Sample Soldefend

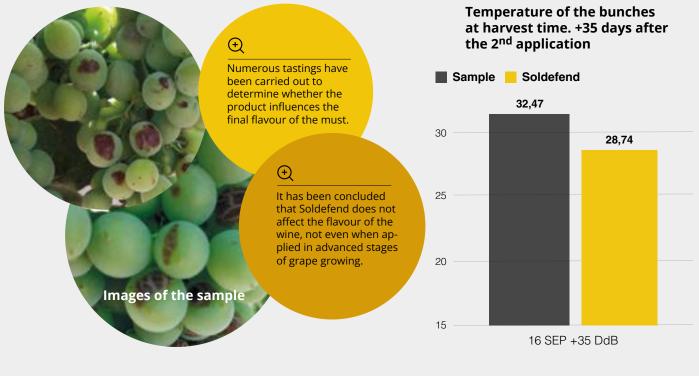




Drop in midday temperature of 11 % (-8 °C) and

More than a month after the last application, the temperature is still below

TESTS: TREATMENT OF VINEYARDS WITH SOLDEFEND



Discard

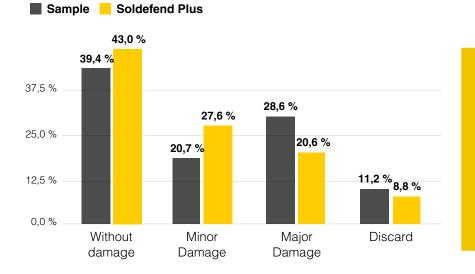
	Weight 1000 grapes	G.A.P.	рН	ATS C
SAMPLE	114,6 b	14,8 a	3,5 a	9 ,0 a
SOLDEFEND	119,2 a	13,7 b	3,2 b	3,8 b

Thanks to solar protection, an increase in weight of 4% is achieved. Quality is improved, reducing the probable alcoholic level and total acidity, which favours **a delay in maturation.**

TESTS: TREATMENT OF POMEGRANATE TREES WITH SOLDEFEND PLUS

Adult trees, >6 years

Early applications 3 and 24 June (+21 days) Damage assessment 01/09/2020



Two months after the last application, shortly before the harvest, when the time of greatest exposure to the sun had already passed, we categorised damage caused by the sun in which we observed how Soldefend Plus manages to protect a significant quantity of fruit.

8,8 %

-2,4 %

(+3.6% in the ctg. I and +6.9% in the ctg. II, and discard reduction and ctg. III).

<u> </u>			
Percentage	Sample	Soldefend	Diff.
Without damage	39,4%	43 %	3,6 %
Minor damage (ctg. II)	20,7 %	27,6 %	6,9 %
Major damage (ctg. III)	28,6 %	20,6 %	-8,0 %

11,2 %

Alicante 2020

TESTS: TREATMENT OF POMEGRANATE TREES WITH SOLDEFEND PLUS

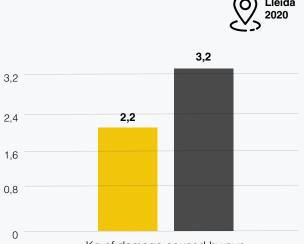


TESTS: TREATMENT OF APPLE TREES WITH SOLDEFEND

Brookfield-Gala variety, intensive cultivation

2 applications x 20 L/Ha (1000 L of spray mixture): 26 June and 29 July (+33 days)

Evaluation of harvest 13 August (15 days after the 2 nd application) Sample Soldefend	
Protection difference Kg/tree	0,94
Plantation density (tree/Ha)	2.400
Protection difference Kg/Ha	2.261



Lleida

Kg of damage caused by sun



Without damage

Sunburn



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13 August. Appearance of healthy fruit and sun-damaged fruit during treatment, at the time of harvest.

> The application on two occasions of Soldefend helps protect around 7.5% of the production, which is equivalent to almost 1 kg per tree and 2200 kg/ha.

> The product does not cause spots, degrades gradually and is easily cleaned.