

Chelal® Fe + Chelal® RD NF: for greener plants

A lot of the fruit and wine producing regions in the world are located in areas with calcareous soils, having a high pH's and high concentrations of active calcium carbonate. In these conditions most of the nutrients have a low plant availability and are blocked in the soil. **Iron (Fe)** is without any doubt the most problematic element and deficiencies of this element are frequently observed. Besides the difficult soil situation, not always the right varieties and rootstocks, adapted to these specific conditions, have used making the problem only worse.



Other elements such as **Manganese (Mn)**, **Zinc (Zn)** and **Boron (B)** are, in these type of soils, also less plant available. Fruit trees and vineyards, which are in general also relatively sensitive to the deficiencies of also those elements, can therefore suffer in these circumstances severe nutritional imbalances. These secondary deficiencies are often overshadowed by the most important deficiency, the one of Iron. The typical iron chlorosis symptoms, observed on the plants, are certainly provoked by the iron deficiency, but most of the time these plants suffer simultaneously also the deficiency of these other elements, but their typical deficiency symptoms are hidden behind the symptoms of the iron chlorosis.

"Traditional" iron treatments consist of the application of chelates (of the EDDHA family) to the soil, providing only Fe to the plant, which is not always resulting in satisfactory results. BMS Micro-Nutrients developed an efficient foliar program which not only applies iron in sufficient quantities, but also the other micro-nutrients. The joint application of these elements is recommended. Our program not only treats the main deficiency but also the secondary deficiencies (mainly of Zn and Mn).

The combination **Chelal Fe with Chelal RD NF**, has given over the years very good results at a competitive cost and provoked a revolution in how iron deficiency is treated. The program consists of 2 or 3 treatments of the combination of these 2 products (1-1,5 kg Chelal RD NF+ 1-2 L Chelal Fe), followed, if necessary, by 2-4 treatments with only Chelal Fe.

Deficiency symptoms:

- yellowing of the mainly and firstly the youngest leaves on the top of the shoots.
- the symptoms are often not evenly distributed on the field and on the plant
- the chlorosis spreads later over the whole plant and leaves will also become necrotic.
- The young shoots will dry out and also older leaves will become yellow.



Recomendations

Advantadges



- Assures a balanced nutrition of the crops
- Controls simultaneously the iron deficiency and the secondary deficiencies of Zn, Mn and B
- Thanks to the complete chelation of the applied elements, the absorption is fast and the translocation to all the other parts of the plant, is easy.
- Because of the foliar application, possible interactions and with the soil are avoided.
- Keeps the crop green until the end of the season, assuring this way also a better quality (greener) of the shoots at the beginning of the next season/year.
- Preventive as well as curative treatments can be done.
- The products are compatible with almost all widely used pesticides, and therefore they can be applied simultaneously. No supplementary applications are required. (consult our mixability list: www.chelal.com: homepage).

Programme

2 - 3 treatments with
(0,5-1,5 kg Chelal® RD NF + 1-2 L Chelal® Fe)/ha
followed by 2 - 4 treatments of only
1-2 L Chelal® Fe/ha

We recomend to start the treatments when the first symptoms of iron deficiency appear or to treat preventively on fields with known problems of iron deficiency.

Attention: for citrus fruits: do not apply Chelal® Fe during the coloration of the fruits.

COMPOSITION

Chelal Fe: Straight inorganic micronutrient fertiliser

5,2 % iron (Fe), as chelate (DTPA, EDTA, HEEDTA), water soluble of which chelated by DTPA 3,0%, chelated by EDTA 1,2%, chelated by HEEDTA 1,0%

Chelal RD NF: Compount inorganic micronutrient fertiliser

0,75 % boron (B), water soluble; 0,5 % copper (Cu), chelated by EDTA, water soluble

3,1 % iron (Fe), chelated by DTPA, water soluble; 3,9 % manganese (Mn), chelated by EDTA, water soluble; 4,85 % zinc (Zn), chelated by EDTA, water soluble

