

## SO4 (BERLANDIERI x RIPARIA GROUP)

**Origin:** Germany (Fuhr 1919).

### VEGETATIVE FEATURES

**Leaf:** large, wedge-shaped, whole, slightly three-lobed, with an open V-U-shaped petiolar sinus; the upper side is opaque and hairless, the flap is green, wavy, with convoluted edges, thick; the lower side is bristly with whitish light-green main ribs.

**Woody shoot:** long, uniform, branched, with prominent development of secondary shoots, hairless, partially pruinose, dark-purple-red in color, more intensely colored at the nodes.

### CULTURAL APTITUDES

**Ability to promote fruit setting:** good.

**Root system regeneration:** good.

### ADAPTABILITY TO SOIL TYPE

**Compact:** average.

**Wet:** average.

**Dry:** average.

**Stony:** average.

**acid:** poor.

**Saline:** poor.

**Branching pattern of the roots:** expanded.

**Tendency to emission of suckers:** average.

### SUSCEPTIBILITY TO DEFICIENCIES OR EXCESSES

**Deficiency of K:** very sensitive.

**Deficiency of Mg:** low sensitivity.

**Deficiency of P:** low sensitivity.

**Deficiency of Fe:** sensitive.

**Deficiency of Zn:** sensitive.

**excess of B:** sensitive.

**Resistance to root phylloxera:** good.

**Resistance to leaf phylloxera:** acceptable.

### SUSCEPTIBILITY TO FUNGAL AND PLANT DISEASES

**Downy mildew:** very low.

**Powdery mildew:** sensitive.

**Anthracoze:** very sensitive.

**Botrytis:** it induces a higher sensitivity.

**Eutypa disease:** it induces sensitivity.

**Rachis desiccation:** it induces sensitivity.

**Esca disease:** sensitive.



### OTHER INFORMATION

**Behavior in the nursery:** the rooting and vegetative resumption are good in combination with most of the vine varieties, it is considered an easy-to-grow rootstock; it induces a rapid development to the scion; it shows a tendency to enlarge the callusing tissues at the grafting point; it benefits from hormone treatments and mulching so to stimulate the growth of roots.

**Behavior in the propagation block:** it is advisable to raise it on trellis, so to facilitate lignification; green pruning operations need to be limited.

**Behavior in the open field:** it anticipates fructification; it ensures a good quality of the grapes, even though it tends to delay the ripening period; it is suitable to replanting and to dense plantation; it induces differences in diametrical growth at the grafting point; it shows a moderate resistance to prolonged drought. Incompatibility events with the cultivar Cannonau have been observed.