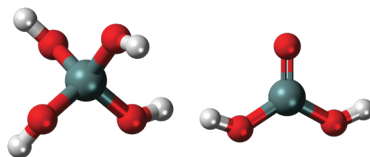# FloraMax

Silica

Monosilicic Acid for hydroponic plants

FLORAMAX SILICA **contains 16% silica present as Mono-silicic Acid ("MSA") and Meta-silicic Acid ("MTSA")* . Both of these compounds are bio-available forms of silica and are completely soluble in nutrient solutions. This yields several benefits for hydroponic growers:**

- **Improves the rigidity of stems and leaves.**
- **Helps prevent leaf wilt during extreme heat.**
- **Increases weight, potency and shelf-life of fruit.**
- FLORAMAX SILICA **is highly concentrated and readily absorbed by plants** (Monosilicic Acid & Metasilicic Acid).
- FLORAMAX SILICA **is highly stable - shelf-life exceeds 20 years** (testing origins predate 1998).
- Dosage: 0.1-0.25ml/L (0.25 - 1 ml/Gal) during veg and flower. SILICA is also very effective as a foliar spray at 3ml/L (3ml/Qrt).
- Available in: 1L // 5L // 20L // 200L // 1000L

Monosilicic Acid (left) and Metasilicic Acid (right) are both easily absorbed by plants (floramax.com)

Plant available forms of silica?

To ensure plant availability, silica needs to be present in the nutrient solution in a soluble form. This is achieved by hydrating the silica molecule:

- $SiO_2 + 1H_2O$ ---> SiO_3H_2 (metasilicic acid, "MTSA" - smaller molecule)
- $SiO_2 + 2H_2O$ ---> SiO_4H_4 (monosilicic acid or orthosilicic acid, "MSA" - larger molecule)

Bioavailability of FloraMax Silica is confirmed via "silica-demand" analysis of re-circulating hydroponic nutrient reservoirs using *AWWA's Molybdosilicate Method.

*Ref: Molybdosilicate Method 4500-Si D., Standard Methods for the Examination of Water and Waste Water, 19th Edition 1995, p4-118,119.

TESTIMONIES

" *"The plants are much stronger... more resistant to diseases and rot... able to withstand the shock of higher growroom temperatures AND STILL DELIVER formidable results"*

"We never grow without Silica. It gives us consistency all year round. Weight and potency are improved and are reliable from crop to crop" "

Analytical Chemists and Horticultural Consultants **Since 1966**

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