

## HOKS-52 Potassium Sulphate Product Data Sheet

Item number: 60-037

### General Information

Sulphate of Potash 52 (+45)  
52 % K<sub>2</sub>O, water-soluble potassium oxide  
45 % SO<sub>3</sub>, water-soluble sulphur trioxide (=18 % S)

**HOKS-52 Potassium Sulphate** is a virtually chloride-free and highly concentrated grade of Sulphur of Potash with improved potassium content and solubility. It has been specifically developed for fertigation and foliar spray, but due to its low dust content and its granulometry is it also suitable for direct soil application (e.g. for golf courses). For optimum dissolution **HOKS-52 Potassium Sulphate** should be added under stirring to the respective solution (water, nutrient solution). In order to prevent possible nozzle blockage in irrigation systems it is recommended to use filters to decant the solution once insolubles have settled.

Our product is made from crude potassium salt of natural origin and is permitted for use in organic farming according to the Regulations (EC) No 834 / 2007 and (EC) No 889 / 2008.

### Chemical Analysis

| Parameter  | Unit | Typical value |
|--|------|---------------|
| Potassium Sulphate (K <sub>2</sub> SO <sub>4</sub> )     | %    | 97.1          |
| Other Sulphates (MgSO <sub>4</sub> , CaSO <sub>4</sub> ) | %    | 1.7           |
| Chlorides (KCl, NaCl)                                    | %    | 0.6           |
| Others, mainly Water of Crystallization                  | %    | 0.4           |
| Moisture   | %    | 0.2           |
| H <sub>2</sub> O-Insolubles                              | %    | < 1           |

### Granulometry

| Parameter           | Unit           | Typical value |    |
|---------------------|----------------|---------------|----|
| Tyler Mesh +20      | > 0.85 mm      | %             | 4  |
| Tyler Mesh 32 – 20  | 0.5 – 0.85 mm  | %             | 23 |
| Tyler Mesh 60 – 32  | 0.25 – 0.5 mm  | %             | 42 |
| Tyler Mesh 100 – 60 | 0.15 – 0.25 mm | %             | 18 |
| Tyler Mesh -100     | < 0.15 mm      | %             | 13 |
| SGN                 | %              | 36            |    |

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## Physical Properties

| Parameter                            | Unit | Typical value                              |
|--------------------------------------|------|--|
| Solubility in water at 10°C (50° F)  | %    | w (K <sub>2</sub> SO <sub>4</sub> ) = 8,4  |
| Solubility in water at 20°C (68° F)  | %    | w (K <sub>2</sub> SO <sub>4</sub> ) = 10,0 |
| Solubility in water at 30°C (86° F)  | %    | w (K <sub>2</sub> SO <sub>4</sub> ) = 11,5 |
| Solubility in water at 50°C (122° F) | %    | w (K <sub>2</sub> SO <sub>4</sub> ) = 14,2 |

## Storage

| Parameter             | Unit                  | Typical value |
|-----------------------|-----------------------|---------------|
| Bulk Density          | kg / m <sup>3</sup>   | approx. 1,560 |
| Bulk Density          | lbs / ft <sup>3</sup> | approx. 97    |
| Bulk Density (packed) | kg / m <sup>3</sup>   | approx. 1,740 |
| Bulk Density (packed) | lbs / ft <sup>3</sup> | approx. 109   |
| Angle of Repose       | °                     | approx. 30    |

The product should be kept in a dry place and protected from moisture.

The data given above is based on our continuous quality monitoring system. The data does not exempt the user from his obligation to make an incoming control of the delivered products. The data is for information purposes only and is not to be taken as a guarantee. It is the responsibility of the user to determine the product's suitability for its intended use.