



Technical Data Sheet

Potassium Sulphate

Chemical Name

Potassium Sulfate (K_2SO_4)

Active ingredient information

Ingredient CASR-No : 7778-80-5 EC No : 231-915-5

Product Properties

Appearance

Free-Flowing white powder

Example of use

The two raw materials used in the production of potassium sulfate are sodium sulfate which is the main product of our company and externally supplied potassium chlorine. Since both of the products are derived from natural resources rather than chemical methods, we are targeting a product with a high added value and suitable for organic agriculture.

An advance technology has been selected for the production of potassium sulfate. With the high potassium oxide rate and 100% water solubility, potassium sulfate which is produced in Alkim is totally suitable for drip irrigation technologies. This product with an organic agriculture certificate will be used as a natural fertilizer in the market.

Characteristic values

Characteristic Method	Unit	Spect Value	Analytical Method
Color and Appearance		White powder	TS 10995
pH (1% solution)		6.0 – 8.0	
Potassium Oxide	%	min. 52	TS 2832
Mass Loss	%	max. 0,1	TS 2832
Chloride (Cl^-)	%	max. 0,5	TS 2832
Sodium (Na^+)	%	max. 1	TS 2832
Sulphate (SO_4) ⁻²	%	min. 53,5	ASTME-359
Statistical Data			
Density	g/cm ³	1,45 - 1,65	TS 525
Potassium (K)	%	min. 43,15	TS 2832
Potassium Sulphate	%	min. 96,5	TS 2832
Insoluable	%	max. 0,1	TS 1866
Calcium (Ca^{+2})	%	max. 0,05	TS 1427
Magnesium (Mg^{+2})	%	max. 0,005	TS 1427



Particle Size Distribution

Sieve Aperture	µm	+1000	+850	+500	+355	+212	+150	+90	<90
Spect Value	%								
Result	%	0,1	0,1	2,7	11,1	52,4	21,1	8,8	3,7

Packaging

Product is available in 1250 kg PE/PP big bags or 25 kg PE/PP bags.

Storage and transportation

Potassium Sulfate, during transportation and storage, must be protected against moisture. It can be used without time limitation in the original unopened big bag.