

SOP-M Standard

Chemical Product: Potassium Magnesium Sulphate

Chemical Formula: $K_2SO_4 \cdot MgSO_4 \cdot 4H_2O$

Appearance: White; fine particles

Product Samples: Samples available on request

Chemical Analysis¹

Component		(w%)
Potassium Sulphate ²	K_2SO_4	47.0
Potassium Oxide	K_2O	25.5
Magnesium Sulphate ²	$MgSO_4$	32.0
Magnesium Oxide	MgO	10.8
Sodium Chloride ²	$NaCl$	0.7
Chlorine	Cl	0.4
Sulphate ²	SO_4	46.3
Sulphur	S	15.5
Moisture	H_2O	0.3

Heavy Metals	(ppm)
Arsenic	< 1.0
Cadmium	< 1.0
Copper	< 1.0
Mercury	< 0.1
Lead	< 1.0

Granulometry¹ (AS 1289 3.6.3, 3.5.1)

Tyler Mesh	Opening (mm)	Passing (w%)
8	2.36	99.9
14	1.18	75.5
28	0.6	19.4
35	0.425	5.5
48	0.3	4.6
100	0.15	4.0
200	0.075	3.3

Physical Properties¹

Bulk Density (Loose)	ca. 905 kg/m ³	(ASTM D7481)
Bulk Density (Packed)	ca. 1016 kg/m ³	(ASTM D7481)
Angle of repose	ca. 27.1°	(AS 2879.12)

¹ Analysis of pilot plant product samples exclusively manufactured from Colluli ore

² Equivalent