



SOP-M Soluble

Chemical Product: Potassium Magnesium Sulphate

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

Appearance: White; very 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%)
14	1.18	100.0
28	0.6	99.9
35	0.425	99.8
48	0.3	97.7
100	0.15	64.4
200	0.075	15.5

Solubility

Temperature	(g/l)
25 °C	306
35 °C	333
45 °C	381
55 °C	448
65 °C	536

Physical Properties¹

Bulk Density (Loose)	ca. 827 kg/m ³	(ASTM D7481)
Bulk Density (Packed)	ca. 913 kg/m ³	(ASTM D7481)
Angle of repose	ca. 25.4°	(AS 2879.12)

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

² Equivalent