



# SOP-M Granular

**Chemical Product:** Potassium Magnesium Sulphate

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

**Appearance:** White; coarse particles

**Product Samples:** Samples available on request

## Chemical Analysis<sup>1</sup>

Component		(w%)
Potassium Sulphate <sup>2</sup>	$K_2SO_4$	47.0
Potassium Oxide	$K_2O$	25.5
Magnesium Sulphate <sup>2</sup>	$MgSO_4$	32.0
Magnesium Oxide	$MgO$	10.8
Sodium Chloride <sup>2</sup>	$NaCl$	0.7
Chlorine	$Cl$	0.4
Sulphate <sup>2</sup>	$SO_4$	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

## Granulometry<sup>1</sup> (AS 1289 3.6.3, 3.5.1)

Tyler Mesh	Opening (mm)	Passing (w%)
4	4.75	99.4
8	2.36	24.2
14	1.18	0.9
>14	<1.18	3.3

## Physical Properties<sup>1</sup>

Bulk Density (Loose)	ca. 901 kg/m <sup>3</sup>	(ASTM D7481)
Bulk Density (Packed)	ca. 959 kg/m <sup>3</sup>	(ASTM D7481)
Angle of repose	ca. 22.4°	(AS 2879.12)

<sup>1</sup> Analysis of pilot plant product samples exclusively manufactured from Colluli ore

<sup>2</sup> Equivalent