



# Sulphate of Potash (SOP) - Soluble

<b>Chemical Product:</b>	Potassium Sulphate
<b>Chemical Formula:</b>	K <sub>2</sub> SO <sub>4</sub>
<b>Appearance:</b>	White; very fine particles
<b>Product Samples:</b>	Samples available on request

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

Component		(w%)
Potassium Sulphate <sup>2</sup>	K <sub>2</sub> SO <sub>4</sub>	96.0
Potassium Oxide	K <sub>2</sub> O	52.0
Sodium Chloride <sup>2</sup>	NaCl	<0.2
Chlorine	Cl	<0.1
Sulphate <sup>2</sup>	SO <sub>4</sub>	55.0
Sulphur	S	18.5
Moisture	H <sub>2</sub> O	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%)
14	1.18	99.9
28	0.6	98.0
35	0.425	95.3
48	0.3	92.6
100	0.15	86.2
200	0.075	55.8

## Solubility

Temperature	(g/l)
25 °C	125
35 °C	154
45 °C	178
55 °C	196
65 °C	209

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

Bulk Density (Loose)	ca. 1209 kg/m <sup>3</sup>	(ASTM D7481)
Bulk Density (Packed)	ca. 1393 kg/m <sup>3</sup>	(ASTM D7481)
Angle of repose	ca. 28.9°	(AS 2879.12)

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

<sup>2</sup> Equivalent